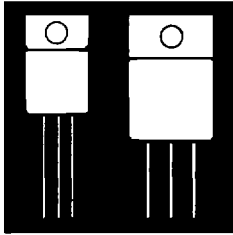


LOW VOLTAGE, LOW $R_{DS(on)}$ POWER MOSFETS IN HERMETIC ISOLATED PACKAGE



50V And 60V Ultra Low $R_{DS(on)}$
 Power MOSFETs In TO-257 And TO-254
 Isolated Packages

FEATURES

- Isolated Hermetic Metal Packages
- Ultra Low $R_{DS(on)}$
- Low Conductive Loss/Low Gate Charge
- Available Screened To MIL-S-19500, TX, TXV And S Levels
- Ceramic Feedthroughs Available

DESCRIPTION

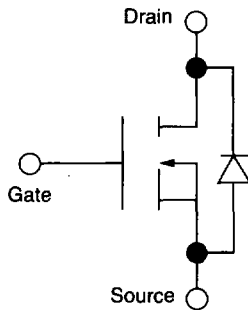
This series of hermetic packaged MOSFETs are ideally suited for low voltage applications; battery powered voltage power supplies, motor controls, dc to dc converters and synchronous rectification. The low conduction loss allows smaller heat sinking and the low gate charge simpler drive circuitry.

MAXIMUM RATINGS (Per Device)

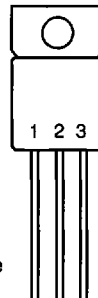
PART NO.	V_{DS} (V)	$R_{DS(on)}$ (Ω)	I_D (A)	Package
OM60N06SA	60	.025	60	TO-254AA
OM50N06SA	60	.030	50	TO-254AA
OM50N06ST	60	.035	50	TO-257AA
OM60N05SA	50	.025	60	TO-254AA
OM50N05SA	50	.030	50	TO-254AA
OM50N05ST	50	.035	50	TO-257AA

3.1

SCHEMATIC

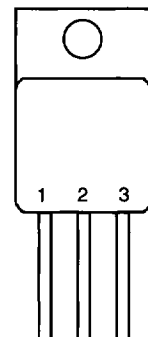


T-3 PIN CONNECTION



Pin 1: Drain
 Pin 2: Source
 Pin 3: Gate

M-PAK PIN CONNECTION



Pin 1: Drain
 Pin 2: Source
 Pin 3: Gate

ABSOLUTE MAXIMUM RATINGS ($T_C = 25^\circ\text{C}$ unless otherwise noted)

Parameter	60N06SA	50N06ST 50N05SA	60N05SA	50N05ST 50N05SA	Units
V_{DS} Drain-Source Voltage	60	60	50	50	V
V_{DGR} Drain-Gate Voltage ($R_{GS} = 1\text{ M}\Omega$)	60	60	50	50	V
$I_D @ T_C = 25^\circ\text{C}$ Continuous Drain Current ²	55	50	55	50	A
$I_D @ T_C = 100^\circ\text{C}$ Continuous Drain Current ²	37	33	37	33	A
I_{DM} Pulsed Drain Current ¹	220	200	220	200	A
$P_D @ T_C = 25^\circ\text{C}$ Maximum Power Dissipation	100	100	100	100	W
$P_D @ T_C = 100^\circ\text{C}$ Maximum Power Dissipation	40	40	40	40	W
Junction-To-Case Linear Derating Factor ¹	.80	.80	.80	.80	W/ $^\circ\text{C}$
T_J Operating and T_{sig} Storage Temperature Range	-55 to 150	-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$
Lead Temperature (1/16" from case for 10 secs.)	300	300	300	300	$^\circ\text{C}$

1 Pulse Test: Pulse width $\leq 300\ \mu\text{sec}$. Duty Cycle $\leq 1.5\%$.
 2 Package Limited SA $I_b = 25\text{ A}$, SC SC $I_b = 35\text{ A} @ 25^\circ\text{C}$

THERMAL RESISTANCE

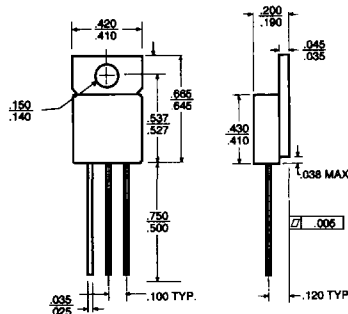
R_{thJC} Junction-to-Case	1.25	$^\circ\text{C/W}$
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PACKAGE LIMITATIONS

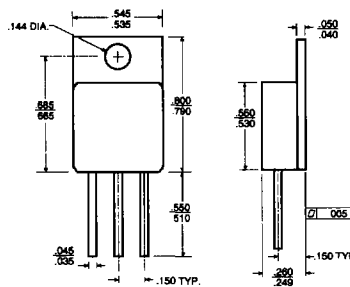
Parameters	TO254AA	TO-257AA	Unit
I_D Continuous Drain Current	25	15	A
Linear Derating Factor, Junction-to-Ambient	.020	.015	W/ $^\circ\text{C}$
R_{thJA} Thermal Resistance, Junction-to-Ambient (Free Air Operation)	50	65	$^\circ\text{C/W}$
Linear Derating, Junction-to-Case	0.8	0.8	W/ $^\circ\text{C}$

3.1

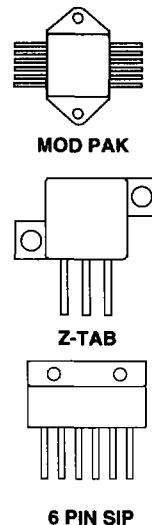
T-3 MECHANICAL OUTLINE



M-PAK MECHANICAL OUTLINE



PACKAGE OPTIONS



Notes:

- Standard Products are supplied with glass feedthroughs. For ceramic feedthroughs, add the letter "C" to the part number. Example - OMXXXXCSA.
- MOSFETs are also available in Z-Pak, dual and quad pak styles. Please call the factory for more information.

OM60N06SA (T_c = 25°C unless otherwise specified)

Avalanche Characteristics	Min.	Typ.	Max.	Units	Test Conditions
I _{AV} Avalanche Current		55	A	(repetitive or non-repetitive, T _j = 25°C)	
E _{AS} Single Pulse Avalanche Energy		520	mJ	(starting T _j = 25°C, I _b = I _{AV} , V _{GS} = 25 V)	
E _{AR} Repetitive Avalanche Energy		130	mJ	(pulse width limited by T _{limit} , δ < 1%)	
I _{AV} Avalanche Current		34	A	(repetitive or non-repetitive, T _j = 100°C)	
Electrical Characteristics - OFF					
V _{VENSS} Drain-Source Breakdown Voltage	60		V	I _b = 250 μA, V _{GS} = 0	
V _{ZS} Zero Gate Voltage Drain Current (V _{GS} = 0)		250	μA	V _{DS} = Max. Rat.	
I _{ZSS} Gate-Body Leakage Current (V _{GS} = 0)		1000	μA	V _{DS} = Max. Rat. x 0.8, T _c = 125°C	
I _{ZSS} Gate-Body Leakage Current (V _{GS} = 0)		±100	nA	V _{DS} = ±20 V	
Electrical Characteristics - ON*					
V _{GS(th)} Gate Threshold Voltage	2	4	V	V _{GS} = V _{GS} , I _b = 250 μA	
R _{DS(on)} Static Drain-Source On Resistance		.025	Ω	V _{GS} = 10 V, I _b = 30 A	
I _{DM} On State Drain Current	55		A	V _{GS} > I _{DM} x R _{DS(on)} , V _{GS} = 10 V	
Electrical Characteristics - Dynamic					
g _{fs} Forward Transconductance	16		S	V _{GS} > I _{DM} x R _{DS(on)} , I _b = 30 A	
C _{iss} Input Capacitance		2500	pF	V _{GS} = 25 V	
C _{oss} Output Capacitance		950	pF	V _{GS} = 0	
C _{res} Reverse Transfer Capacitance		250	pF	f = 1 MHz	
Electrical Characteristics - Switching On					
T _{turn} Turn-On Time		110	nS	V _{DD} = 25 V, I _b = 55 A	
t _r Rise Time		300	nS	R _G = 50 Ω, V _{GS} = 10 V	
(di/dt) _{on} Turn-On Current Slope		160	A/μS	V _{DD} = 40 V, I _b = 55 A	
Q _{on} Total Gate Charge		65	nC	R _G = 50 Ω, V _{GS} = 10 V	
Electrical Characteristics - Switching Off					
T _{turn} Turn-Off Time		160	nS	V _{DD} = 40 V, I _b = 55 A	
t _f Fall Time		160	nS	R _G = 50 Ω, V _{GS} = 10 V	
t _{cross} Cross-Over Time		320	440	nS	
Electrical Characteristics - Source Drain Diode					
I _{SD} Source Drain Current		55	A		
I _{SDM} * Source Drain Current (pulsed)		200	A		
V _{SD} Forward On Voltage		1.6	V	I _{SD} = 55 A, V _{GS} = 0	
t _r Reverse Recovery Time		100	nS	I _{SD} = 55 A, di/dt = 100 A/μS	
Q _r Reverse Recovery Charge		25	μC	V _{th} = 25 V, T _j = 150°C	
I _{RRM} Reverse Recovery Current		5	A		

*Pulsed: Pulse Duration ≤ 300μS, Duty Cycle ≤ 1.5%.

OM50N06SA (T_c = 25°C unless otherwise specified)

Avalanche Characteristics	Min.	Typ.	Max.	Units	Test Conditions
I _{AV} Avalanche Current		50	A	(repetitive or non-repetitive, T _j = 25°C)	
E _{AS} Single Pulse Avalanche Energy		400	mJ	(starting T _j = 25°C, I _b = I _{AV} , V _{GS} = 25 V)	
E _{AR} Repetitive Avalanche Energy		100	mJ	(pulse width limited by T _{limit} , δ < 1%)	
I _{AV} Avalanche Current		30	A	(repetitive or non-repetitive, T _j = 100°C)	
Electrical Characteristics - OFF					
V _{VENSS} Drain-Source Breakdown Voltage	60		V	I _b = 250 μA, V _{GS} = 0	
V _{ZS} Zero Gate Voltage Drain Current (V _{GS} = 0)		250	μA	V _{DS} = Max. Rat.	
I _{ZSS} Gate-Body Leakage Current (V _{GS} = 0)		1000	μA	V _{DS} = Max. Rat. x 0.8, T _c = 125°C	
I _{ZSS} Gate-Body Leakage Current (V _{GS} = 0)		±100	nA	V _{DS} = ±20 V	
Electrical Characteristics - ON*					
V _{GS(th)} Gate Threshold Voltage	2	4	V	V _{GS} = V _{GS} , I _b = 250 μA	
R _{DS(on)} Static Drain-Source On Resistance		.028	Ω	V _{GS} = 10 V, I _b = 25 A	
I _{DM} On State Drain Current	50		A	V _{GS} > I _{DM} x R _{DS(on)} , V _{GS} = 10 V	
Electrical Characteristics - Dynamic					
g _{fs} Forward Transconductance	17		S	V _{GS} > I _{DM} x R _{DS(on)} , I _b = 25 A	
C _{iss} Input Capacitance		2000	pF	V _{GS} = 25 V	
C _{oss} Output Capacitance		1000	pF	V _{GS} = 0	
C _{res} Reverse Transfer Capacitance		300	pF	f = 1 MHz	
Electrical Characteristics - Switching On					
T _{turn} Turn-On Time		45	nS	V _{DD} = 25 V, I _b = 29 A	
t _r Rise Time		90	nS	R _G = 4.7 Ω, V _{GS} = 10 V	
(di/dt) _{on} Turn-On Current Slope		200	A/μS	V _{DD} = 40 V, I _b = 50 A	
Q _{on} Total Gate Charge		45	nC	R _G = 50 Ω, V _{GS} = 10 V	
Electrical Characteristics - Switching Off					
T _{turn} Turn-Off Time		160	nS	V _{DD} = 40 V, I _b = 50 A	
t _f Fall Time		90	nS	R _G = 50 Ω, V _{GS} = 10 V	
t _{cross} Cross-Over Time		250	nS		
Electrical Characteristics - Source Drain Diode					
I _{SD} Source Drain Current		50	A		
I _{SDM} * Source Drain Current (pulsed)		200	A		
V _{SD} Forward On Voltage		2	V	I _{SD} = 50 A, V _{GS} = 0	
t _r Reverse Recovery Time		150	nS	I _{SD} = 50 A, di/dt = 100 A/μS	
Q _r Reverse Recovery Charge		0.2	μC	V _{th} = 30 V, T _j = 150°C	
I _{RRM} Reverse Recovery Current		4	A		

*Pulsed: Pulse Duration ≤ 300μS, Duty Cycle ≤ 1.5%.

OM50N06ST (T_C = 25°C unless otherwise specified)

Avalanche Characteristics	Min.	Typ.	Max.	Units	Test Conditions
I _{AV} Avalanche Current			50	A	(repetitive or non-repetitive, T _J = 25°C)
E _{AS} Single Pulse Avalanche Energy			400	mJ	(starting T _J = 25°C, I _b = I _{AS} , V _{GS} = 25 V)
E _{AR} Repetitive Avalanche Energy			100	mJ	(pulse width limited by T _{J(max)} , δ < 1%)
I _{AR} Avalanche Current			30	A	(repetitive or non-repetitive, T _J = 100°C)
Electrical Characteristics - OFF					
V _{DRSS} Drain-Source Breakdown Voltage	60			V	I _b = 250 μA, V _{GS} = 0
I _{SS} Zero Gate Voltage Drain Current (V _{GS} = 0)			250	μA	V _{DS} = Max. Rat.
I _{SS} Gate-Body Leakage Current (V _{GS} = 0)			1000	μA	V _{GS} = Max. Rat. x 0.8, T _C = 125°C
			±100	nA	V _{GS} = ±20 V
Electrical Characteristics - ON*					
V _{GS(th)} Gate Threshold Voltage	2		4	V	V _{GS} = V _{DS} , I _b = 250 μA
R _{DS(on)} Static Drain-Source On Resistance			.033	Ω	V _{GS} = 10 V, I _b = 25 A
			.066	Ω	T _C = 100°C
I _{DM} On State Drain Current	50			A	V _{DS} > I _{DM} × R _{DS(on)} , V _{GS} = 10 V
Electrical Characteristics - Dynamic					
g _{fs} Forward Transconductance	17			S	V _{GS} > I _{DM} × R _{DS(on)} , I _b = 25 A
C _{iss} Input Capacitance			2000	pF	V _{GS} = 25 V
C _{oss} Output Capacitance			1000	pF	V _{GS} = 0
C _{res} Reverse Transfer Capacitance			300	pF	f = 1 MHz
Electrical Characteristics - Switching On					
T _{turn} Turn-On Time			45	nS	V _{DD} = 25 V, I _b = 29 A
t _r Rise Time			90	nS	R _θ = 4.7 Ω, V _{GS} = 10 V
(di/dt) _{on} Turn-On Current Slope			200	A/μS	V _{DD} = 40 V, I _b = 50 A
				nC	R _θ = 50 Ω, V _{GS} = 10 V
Q _g Total Gate Charge			45	nC	V _{DD} = 40 V, I _b = 50 A, V _{GS} = 10 V
Electrical Characteristics - Switching Off					
T _{turn} Off Voltage Rise Time			160	nS	V _{DD} = 40 V, I _b = 50 A
t _f Fall Time			90	nS	R _θ = 50 Ω, V _{GS} = 10 V
t _{cross} Cross-Over Time			250	nS	
Electrical Characteristics - Source Drain Diode					
I _{SD} Source Drain Current			50	A	
I _{SDM} * Source Drain Current (pulsed)			200	A	
V _{SD} Forward On Voltage			2	V	I _{SD} = 50 A, V _{GS} = 0
t _r Reverse Recovery Time			150	nS	I _{SD} = 50 A, di/dt = 100 A/μs
Q _r Reverse Recovery Charge			0.2	μC	V _R = 30 V, T _J = 150°C
I _{RRM} Reverse Recovery Current			4	A	

*Pulsed: Pulse Duration ≤ 300μs, Duty Cycle ≤ 1.5%.

OM60N05SA (T_C = 25°C unless otherwise specified)

Avalanche Characteristics	Min.	Typ.	Max.	Units	Test Conditions
I _{AV} Avalanche Current			55	A	(repetitive or non-repetitive, T _J = 25°C)
E _{AS} Single Pulse Avalanche Energy			520	mJ	(starting T _J = 25°C, I _b = I _{AS} , V _{GS} = 25 V)
E _{AR} Repetitive Avalanche Energy			130	mJ	(pulse width limited by T _{J(max)} , δ < 1%)
I _{AR} Avalanche Current			34	A	(repetitive or non-repetitive, T _J = 100°C)
Electrical Characteristics - OFF					
V _{DRSS} Drain-Source Breakdown Voltage	50			V	I _b = 250 μA, V _{GS} = 0
I _{SS} Zero Gate Voltage Drain Current (V _{GS} = 0)			250	μA	V _{DS} = Max. Rat.
I _{SS} Gate-Body Leakage Current (V _{GS} = 0)			1000	μA	V _{GS} = Max. Rat. x 0.8, T _C = 125°C
			±100	nA	V _{GS} = ±20 V
Electrical Characteristics - ON*					
V _{GS(th)} Gate Threshold Voltage	2		4	V	V _{GS} = V _{DS} , I _b = 250 μA
R _{DS(on)} Static Drain-Source On Resistance			.025	Ω	V _{GS} = 10 V, I _b = 30 A
			.050	Ω	T _C = 100°C
I _{DM} On State Drain Current	55			A	V _{DS} > I _{DM} × R _{DS(on)} , V _{GS} = 10 V
Electrical Characteristics - Dynamic					
g _{fs} Forward Transconductance	16			S	V _{GS} > I _{DM} × R _{DS(on)} , I _b = 30 A
C _{iss} Input Capacitance			2500	pF	V _{GS} = 25 V
C _{oss} Output Capacitance			950	pF	V _{GS} = 0
C _{res} Reverse Transfer Capacitance			250	pF	f = 1 MHz
Electrical Characteristics - Switching On					
T _{turn} Turn-On Time			110	nS	V _{DD} = 25 V, I _b = 55 A
t _r Rise Time			300	nS	R _θ = 50 Ω, V _{GS} = 10 V
(di/dt) _{on} Turn-On Current Slope			160	A/μS	V _{DD} = 40 V, I _b = 55 A
Q _g Total Gate Charge			65	nC	R _θ = 50 Ω, V _{GS} = 10 V
Electrical Characteristics - Switching Off					
T _{turn} Off Voltage Rise Time			160	nS	V _{DD} = 40 V, I _b = 55 A
t _f Fall Time			160	nS	R _θ = 50 Ω, V _{GS} = 10 V
t _{cross} Cross-Over Time			320	nS	
Electrical Characteristics - Source Drain Diode					
I _{SD} Source Drain Current			55	A	
I _{SDM} * Source Drain Current (pulsed)			200	A	I _{SD} = 55 A, V _{GS} = 0
V _{SD} Forward On Voltage			1.6	V	I _{SD} = 55 A, di/dt = 100 A/μs
t _r Reverse Recovery Time			100	nS	V _R = 25 V, T _J = 150°C
Q _r Reverse Recovery Charge			25	μC	
I _{RRM} Reverse Recovery Current			5	A	

*Pulsed: Pulse Duration ≤ 300μs, Duty Cycle ≤ 1.5%.

OM50N05SA (T_C = 25°C unless otherwise specified)

Avalanche Characteristics	Min.	Typ.	Max.	Units	Test Conditions
I _{AR} Avalanche Current			50	A	(repetitive or non-repetitive, T _J = 25°C)
E _{AS} Single Pulse Avalanche Energy			400	mJ	(starting T _J = 25°C, I _b = I _{AR} , V _{DS} = 25 V)
E _{AR} Repetitive Avalanche Energy			100	mJ	(pulse width limited by T _{Jmax} , δ < 1%)
I _{AR} Avalanche Current			30	A	(repetitive or non-repetitive, T _J = 100°C)
Electrical Characteristics - OFF					
V _{DR} Drain-Source Breakdown Voltage	50			V	I _b = 250 μA, V _{GS} = 0
I _{SS} Zero Gate Voltage Drain Current (V _{GS} = 0)			250	μA	V _{DS} = Max. Rat.
I _{SS} Gate-Body Leakage Current (V _{GS} = 0)			±100	nA	V _{DS} = Max. Rat. x 0.8, T _C = 125°C, V _{GS} = ±20 V
Electrical Characteristics - ON*					
V _{GS(th)} Gate Threshold Voltage	2	4		V	V _{GS} = V _{DS} , I _b = 250 μA
R _{DS(on)} Static Drain-Source On Resistance			.028	Ω	V _{GS} = 10 V, I _b = 25 A, T _C = 100°C
I _{DM} On State Drain Current	50			A	V _{GS} > I _{bten} x R _{DS(on)max} , V _{GS} = 10 V
Electrical Characteristics - Dynamic					
g _{fs} Forward Transconductance	17			S	V _{GS} > I _{bten} x R _{DS(on)max} , I _b = 25 A
C _{iss} Input Capacitance			2000	pF	V _{GS} = 25 V
C _{oss} Output Capacitance			1000	pF	V _{GS} = 0
C _{res} Reverse Transfer Capacitance			300	pF	f = 1 MHz
Electrical Characteristics - Switching On					
T _{don} Turn-On Time			45	nS	V _{DS} = 25 V, I _b = 29 A
t _r Rise Time			90	nS	R _θ = 4.7 Ω, V _{GS} = 10 V
(di/dt) _{on} Turn-On Current Slope			200	A/μS	V _{DS} = 40 V, I _b = 50 A
Q _{on} Total Gate Charge			45	nC	R _θ = 50 Ω, V _{GS} = 10 V, V _{DS} = 40 V, I _b = 50 A, V _{GS} = 10 V
Electrical Characteristics - Switching Off					
T _{fvoff} Off Voltage Rise Time			160	nS	V _{GS} = 40 V, I _b = 50 A
t _f Fall Time			90	nS	R _θ = 50 Ω, V _{GS} = 10 V
t _{cross} Cross-Over Time			250	nS	
Electrical Characteristics - Source Drain Diode					
I _{SD} Source Drain Current			50	A	
I _{SDM} Source Drain Current (pulsed)			200	A	
V _{SD} Forward On Voltage			2	V	I _{SD} = 50 A, V _{GS} = 0
t _r Reverse Recovery Time			150	nS	I _{SD} = 50 A, di/dt = 100 A/μS, V _r = 30 V, T _J = 150°C
Q _r Reverse Recovery Charge			0.2	μC	
I _{RRM} Reverse Recovery Current			4	A	

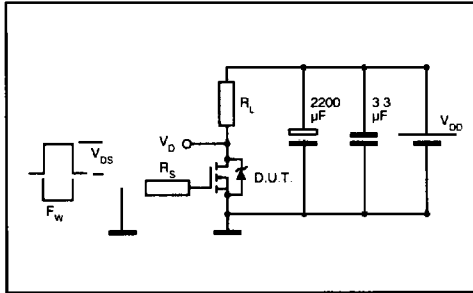
*Pulsed: Pulse Duration ≤ 300μS, Duty Cycle ≤ 1.5%.

OM50N05ST (T_C = 25°C unless otherwise specified)

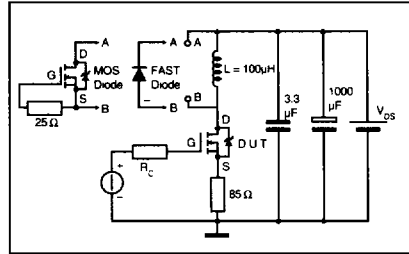
Avalanche Characteristics	Min.	Typ.	Max.	Units	Test Conditions
I _{AR} Avalanche Current			50	A	(repetitive or non-repetitive, T _J = 25°C)
E _{AS} Single Pulse Avalanche Energy			400	mJ	(starting T _J = 25°C, I _b = I _{AR} , V _{DS} = 25 V)
E _{AR} Repetitive Avalanche Energy			100	mJ	(pulse width limited by T _{Jmax} , δ < 1%)
I _{AR} Avalanche Current			30	A	(repetitive or non-repetitive, T _J = 100°C)
Electrical Characteristics - OFF					
V _{DR} Drain-Source Breakdown Voltage	50			V	I _b = 250 μA, V _{GS} = 0
I _{SS} Zero Gate Voltage Drain Current (V _{GS} = 0)			250	μA	V _{DS} = Max. Rat.
I _{SS} Gate-Body Leakage Current (V _{GS} = 0)			±100	nA	V _{DS} = Max. Rat. x 0.8, T _C = 125°C, V _{GS} = ±20 V
Electrical Characteristics - ON*					
V _{GS(th)} Gate Threshold Voltage	2	4		V	V _{GS} = V _{DS} , I _b = 250 μA
R _{DS(on)} Static Drain-Source On Resistance			.033	Ω	V _{GS} = 10 V, I _b = 25 A, T _C = 100°C
I _{DM} On State Drain Current	50			A	V _{GS} > I _{bten} x R _{DS(on)max} , V _{GS} = 10 V
Electrical Characteristics - Dynamic					
g _{fs} Forward Transconductance	17			S	V _{GS} > I _{bten} x R _{DS(on)max} , I _b = 25 A
C _{iss} Input Capacitance			2000	pF	V _{GS} = 25 V
C _{oss} Output Capacitance			1000	pF	V _{GS} = 0
C _{res} Reverse Transfer Capacitance			300	pF	f = 1 MHz
Electrical Characteristics - Switching On					
T _{don} Turn-On Time			45	nS	V _{DS} = 25 V, I _b = 29 A
t _r Rise Time			90	nS	R _θ = 4.7 Ω, V _{GS} = 10 V
(di/dt) _{on} Turn-On Current Slope			200	A/μS	V _{DS} = 40 V, I _b = 50 A
Q _{on} Total Gate Charge			45	nC	R _θ = 50 Ω, V _{GS} = 10 V, V _{DS} = 40 V, I _b = 50 A, V _{GS} = 10 V
Electrical Characteristics - Switching Off					
T _{fvoff} Off Voltage Rise Time			160	nS	V _{GS} = 40 V, I _b = 50 A
t _f Fall Time			90	nS	R _θ = 50 Ω, V _{GS} = 10 V
t _{cross} Cross-Over Time			250	nS	
Electrical Characteristics - Source Drain Diode					
I _{SD} Source Drain Current			50	A	
I _{SDM} Source Drain Current (pulsed)			200	A	
V _{SD} Forward On Voltage			2	V	I _{SD} = 50 A, V _{GS} = 0
t _r Reverse Recovery Time			150	nS	I _{SD} = 50 A, di/dt = 100 A/μS, V _r = 30 V, T _J = 150°C
Q _r Reverse Recovery Charge			0.2	μC	
I _{RRM} Reverse Recovery Current			4	A	

*Pulsed: Pulse Duration ≤ 300μS, Duty Cycle ≤ 1.5%.

**Switching Times Test Circuits
For Resistive Load**

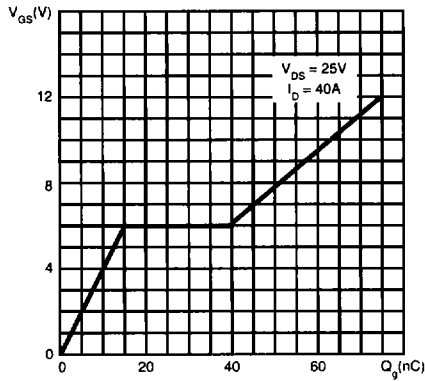


**Test Circuit For Inductive Load Switching
And Diode Reverse Recovery Time**

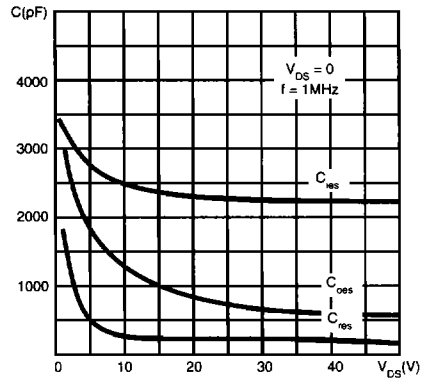


TYPICAL CHARACTERISTICS

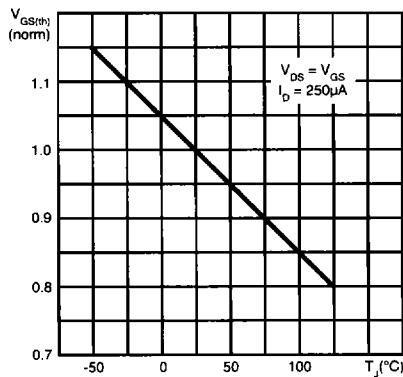
Gate Charge vs Gate-Source Voltage



Capacitance Variations



**Normalized Gate Threshold
Voltage vs Temperature**



**Normalized On Resistance
vs Temperature**

