



GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIERS

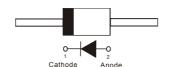
VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

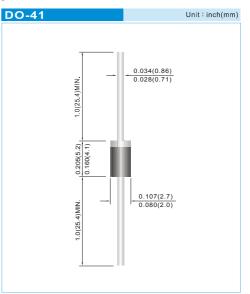
FEATURES

- · High current capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- · Low leakage.
- · Fast switching for high efficiency.
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)

MECHANICAL DATA

- · Case: Molded plastic, DO-41
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.0118 ounce, 0.336 gram





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	PG100R	PG101R	PG102R	PG104R	PG106R	PG108R	PG1010R	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current 0.375"(9.5mm) ead length at T _A =55°C						А			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30						А	
Maximum Forward Voltage at 1A	V _F	1.3						V	
Maximum DC Reverse Current at at Rated DC T _J =25°C Blocking Voltage T _J =100°C	I _R	1 100						μА	
Typical Junction Capacitance (Note 1)	C	12					pF		
Maximum Reverse Recovery Time	t _{rr}	150 250 500			ns				
Typical Thermal Resistance	R _{eJA}	67					°C /		
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150					°C		

NOTES:1. Reverse recovery test conditions: I_F=0.5A, I_R=1A, I_{rr}=0.25A

- 2. Measured at 1 MHz and applied reverse voltage of 4 VDC
- 3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted





RATING AND CHARACTERISTIC CURVES

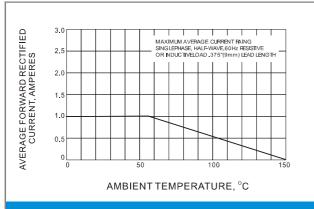


Fig.1 FORWARD CURRENT DERATING CURVE

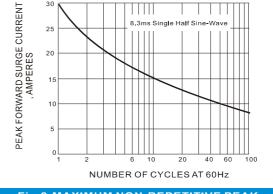


Fig.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

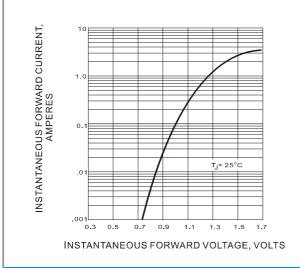


Fig.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

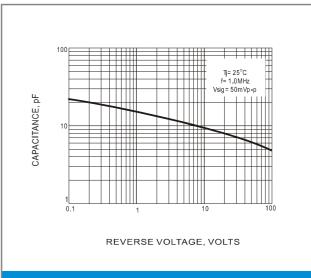


Fig.4 TYPICAL JUNCTION CAPACITANCE

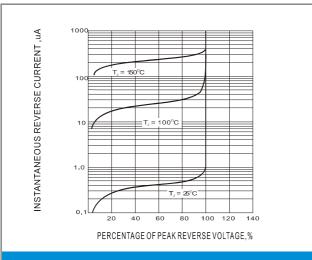


Fig.5-TYPICAL REVERSE CHARACTERISTIC





Part No_packing code_Version

PG100R_AY_00001

PG100R_AY_10001

PG100R_B0_00001

PG100R_B0_10001

PG100R_R2_00001

PG100R_R2_10001

For example:



Packing Code XX					Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code			
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	Т	26mm	X						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





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