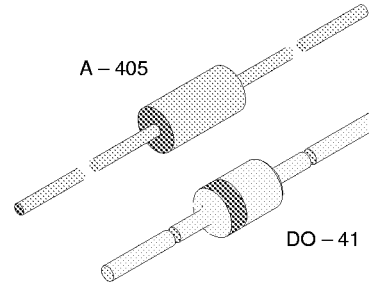




1.0A Fast Recovery Glass Passivated Rectifier

Features

- Glass passivated die construction
- Diffused Junction
- Fast switching for high efficiency
- High current capability and low forward voltage drop
- Surge overload rating to 30A peak
- Plastic material – UL Recognition flammability classification 94V-0



14 451

Absolute Maximum Ratings

$T_j = 25\text{ C}$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Repetitive peak reverse voltage =Working peak reverse voltage =DC Blocking voltage		1N4933G/GL	V_{RRM} = V_{RWM} = V_R	50	V
		1N4934G/GL		100	V
		1N4935G/GL		200	V
		1N4936G/GL		400	V
		1N4937G/GL		600	V
Peak forward surge current			I_{FSM}	30	A
Average forward current	$T_A=75\text{ C}$		I_{FAV}	1	A
Junction and storage temperature range			$T_j=T_{stg}$	-65...+150	C

Electrical Characteristics

$T_j = 25\text{ C}$

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=1\text{A}$		V_F			1.2	V
Reverse current	$T_A=25\text{ C}$		I_R			5	A
	$T_A=100\text{ C}$		I_R			100	A
Reverse recovery time	$I_F=1\text{A}, I_R=0.5\text{A}, I_{rr}=0.25\text{A}$		t_{rr}			200	ns
Diode capacitance	$V_R=4\text{V}, f=1\text{MHz}$		C_D		15		pF
Thermal resistance junction to ambient			R_{thJA}		100		pF



Characteristics ($T_j = 25\text{ C}$ unless otherwise specified)

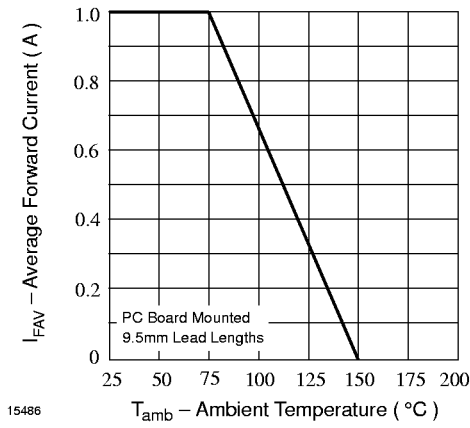


Figure 1. Max. Average Forward Current vs. Ambient Temperature

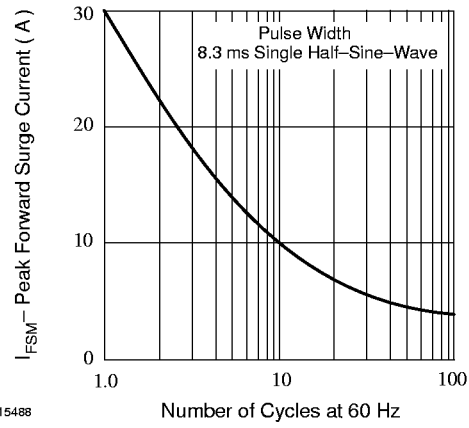


Figure 3. Max. Peak Forward Surge Current vs. Number of Cycles

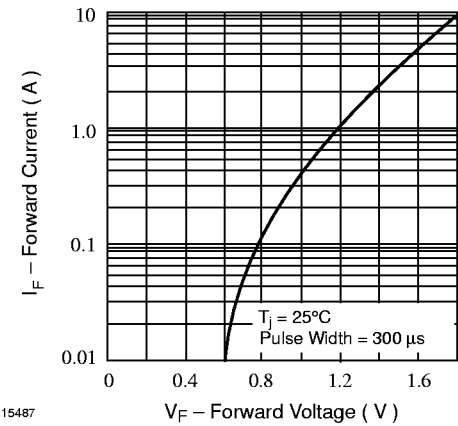


Figure 2. Typ. Forward Current vs. Forward Voltage

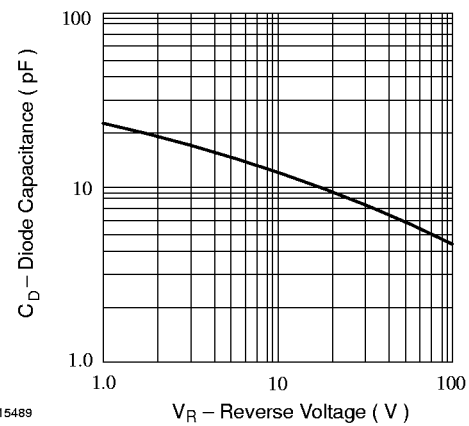


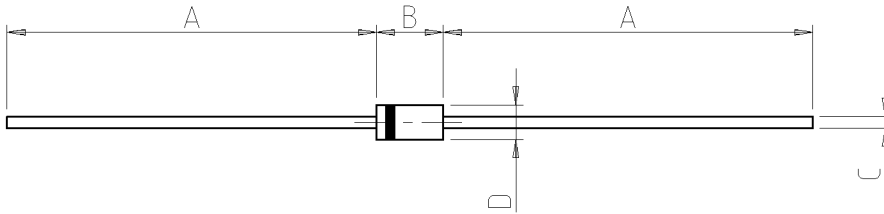
Figure 4. Typ. Diode Capacitance vs. Reverse Voltage



1N4933G/L-1N4937G/L

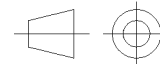
Vishay Lite-On Power Semiconductor

Dimensions in mm



"L" Suffix Designates A-405 Package
No Suffix Designates DO-41 Package

Dim	DO-41		A-405	
	Min	Max	Min	Max
A	25.40	-	25.40	-
B	4.06	5.21	4.10	5.20
C	0.71	0.864	0.53	0.64
D	2.00	2.72	2.00	2.70
All Dimensions in mm				



technical drawings
according to DIN
specifications

14447

Case: molded plastic
Polarity: cathode band
Approx. weight: DO-41 0.35 grams,
A-405 0.20 grams
Mounting position: any
Marking: type number