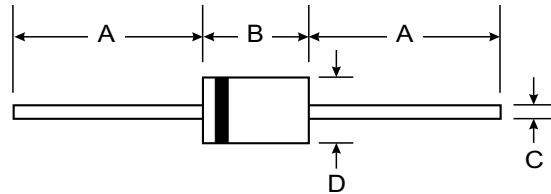


### Features

- Glass Passivated Die Construction
- Diffused Junction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Plastic Material: UL Flammability Classification Rating 94V-0



### Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking: Type Number
- Weight: 0.13 grams (approx.)

T-1		
Dim	Min	Max
A	25.40	—
B	2.60	3.20
C	0.53	0.64
D	2.20	2.60
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristic	Symbol	D1G	D2G	D3G	D4G	D5G	D6G	D7G	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$								
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_R$								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)	$I_o$	1.0							A
		@ $T_A = 75^\circ\text{C}$							
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	30							A
		8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)							
Forward Voltage	$V_{FM}$	1.0							V
		@ $I_F = 1.0\text{A}$							
Peak Reverse Current	$I_{RM}$	5.0							$\mu\text{A}$
		at Rated DC Blocking Voltage							
		@ $T_A = 25^\circ\text{C}$							
		@ $T_A = 100^\circ\text{C}$							
Reverse Recovery Time (Note 3)	$t_{rr}$	2.0							$\mu\text{s}$
Typical Junction Capacitance (Note 2)	$C_j$	8.0							pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	100							K/W
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150							$^\circ\text{C}$

- Notes:
1. Valid provided that leads are maintained at ambient temperature at a distance of 9.5mm from the case.
  2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
  3. Measured with  $I_F = 0.5\text{A}$ ,  $I_R = 1\text{A}$ ,  $I_{rr} = 0.25\text{A}$ .

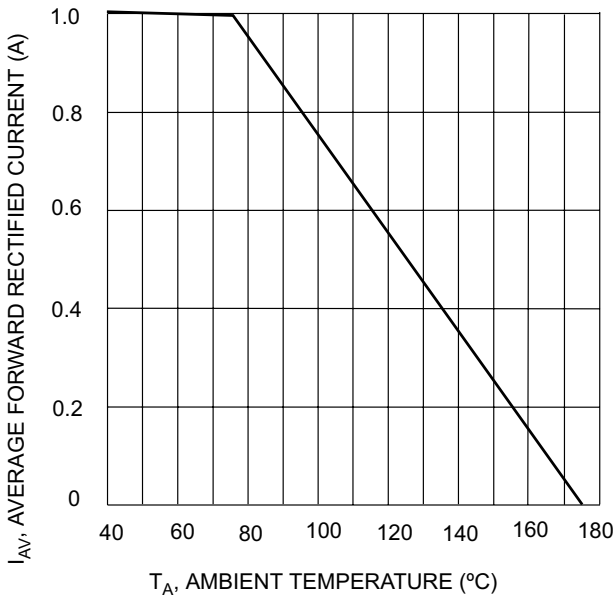


Fig. 1 Forward Current Derating Curve

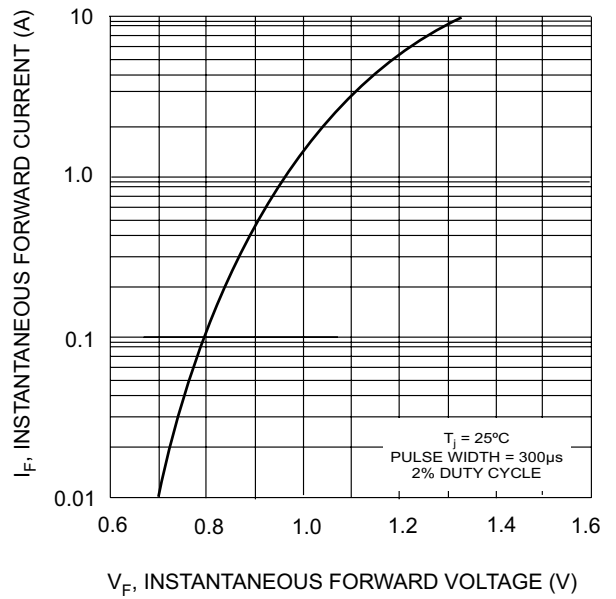


Fig. 2 Typical Forward Characteristics

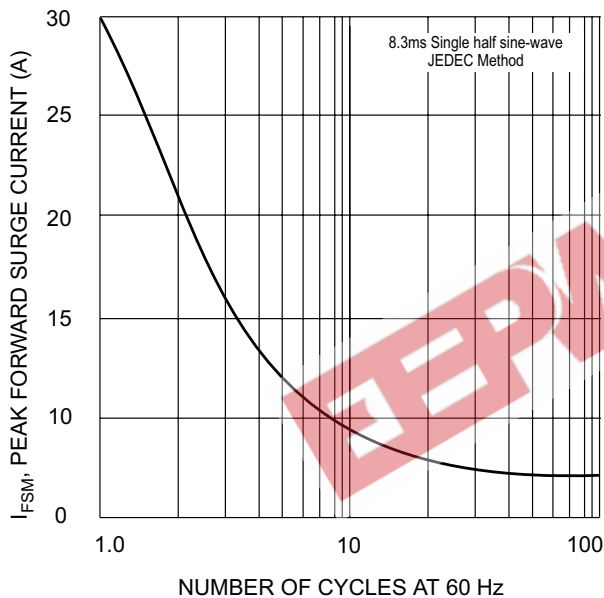


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

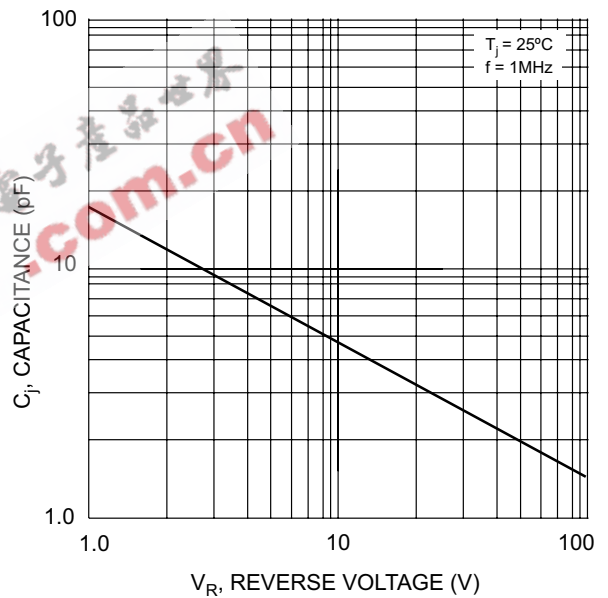


Fig. 4 Typical Junction Capacitance

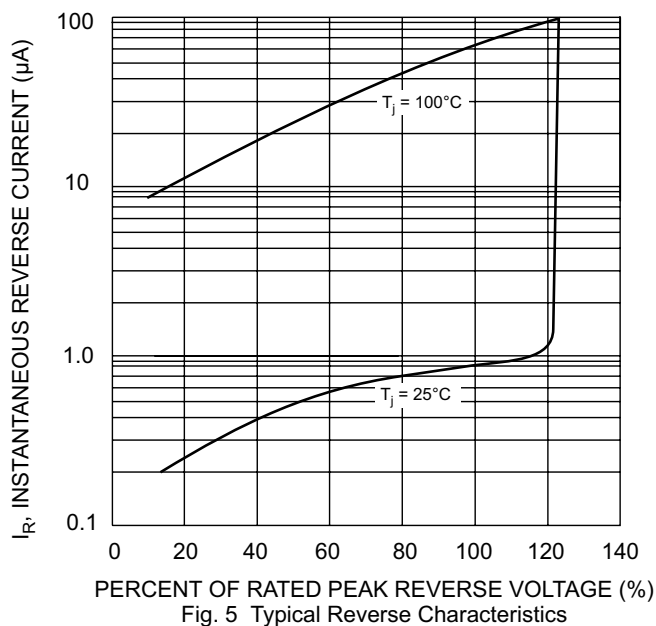


Fig. 5 Typical Reverse Characteristics