

Silicon Switching Diode

Rev. V1

Features

- Available in JAN, JANTX, and JANTXV per MIL-PRF-19500/116
- Metallurgically Bonded
- Hermetically Sealed
- Double Plug Construction



Maximum Ratings

Operating & Storage Temperature: -65°C to +175°C
 Operating Current: 200 mA @ $T_A = +75^\circ\text{C}$
 Derating Factor: 1.14 mA/°C above $T_A = +25^\circ\text{C}$
 Surge Current A: 2.0 A, sinewave, $P_w = 8.3$ ms
 Surge Current B: 0.704 A square, $P_w = 8.3$ ms
 DC Reverse Voltage (V_{RWM}): 75 V

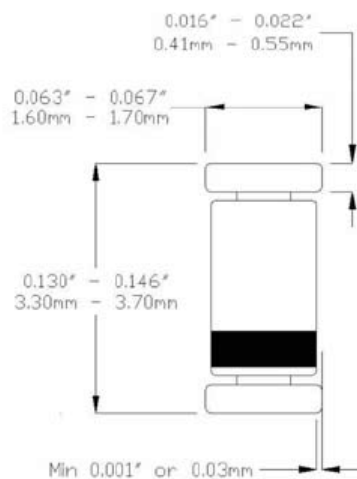
DC Electrical Characteristics

VF				IR				VBR			
Ambient (°C)	IF mA	Min. V	Max. V	Ambient (°C)	V (dc)	Min. A	Max. A	Ambient (°C)	IR mA	Min. V	Max. V
25	10	—	0.8	25	20	—	0.025	25	100	100	25
25	100	—	1.2	25	75	—	0.500				
150	10	—	0.8	150	20	—	35.0				
-55	100	—	1.3	150	75	—	75.0				

AC Electrical Characteristics @ 25°C

Parameter	Symbol	Maximum
Capacitance @ 0 V	pF	4
Capacitance @ 1.5 V	pF	2.8
T_{RR} @ $I_F = I_R = 10$ mA, $I_{REC} = 1$ mA	nsec	5
T_{FR} @ $I_F = 50$ mA	nsec	20
V_{FR} @ $I_F = 50$ mA	V(pk)	5

Outline Drawing



LEADED DESIGN DATA

CASE: Hermetically sealed glass case per MIL-S-19500/116, DO – 213AA

LEAD MATERIAL: Copper clad steel

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\theta JEC}$): 100 °C/W maximum

THERMAL IMPEDANCE: ($Z_{\theta JX}$): 70 °C/W maximum

POLARITY: Cathode end is banded.

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