

M100A - M100M

AXIAL LEADED SILICON RECTIFIER DIODES

VOLTAGE RANGE: 50 - 1000V CURRENT: 1.0 A

Features

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

Case: DO-41, Molded Plastic

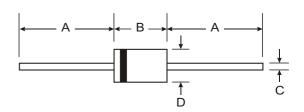
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode BandApprox. Weight: 0.35 gramsMounting Position: Any

Marking: Type Number







DO-41							
Dim	Min	Max					
Α	25.40	_					
В	4.06	5.21					
С	0.71	0.864					
D	2.00	2.72					
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	M100A	M100B	M100D	M100G	M100J	M100K	M100M	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =100°C	I _(AV)	1.0						•	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at T _A =75°C	IFSM	50.0						Α	
Maximum instantaneous forward voltage at 1.0A	VF	1.0 1.1						.1	V
Maximum full load reverse current full cycle average 0.375" (9.5mm) lead length at T _A =55°C	I _{R(AV)}	100.0					μΑ		
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	lR	1.0 50.0						μΑ	
Typical reverse recovery time (NOTE 1)	trr	2.0							μs
Typical junction capacitance (NOTE)2	Сл	15.0							pF
Typical thermal resistance (NOTE 3)	R ₀ JA R ₀ JL	50.0 25.0			°C/W				
Operating junction and storage temperature range	TJ, TSTG	T _{STG} -50 to +150		0			°C		

NOTES:

- (1) Measured with IF=0.5A, IR=0.1A, I $_{rr}$ =0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES M100A THRU M100M

