

SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER VOLTAGE RANG 2000 Volts CURRENT 1.0 Ampere

FEATURES

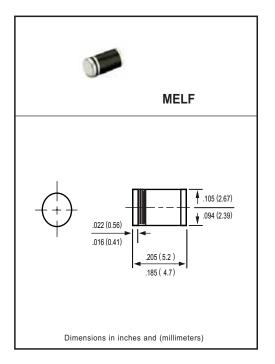
- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any

MECHANICAL DATA

* Epoxy : Device has UL flammability classification 94V-0

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. resistive or inductive load.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

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RATINGS	SYMBOL	SM2000	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	2000	Volts
Maximum RMS Voltage	V _{RMS}	1400	Volts
Maximum DC Blocking Voltage	V _{DC}	2000	Volts
Maximum Average Forward Rectified Current at terminals $T_T = 75$ °C	Io	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30	Amps
Current Squarad Time	I ² t	3.75	A ² Sec
Typical Thermal Resistance (Note 1)	R _{θJA}	45	°C/W
Typical Thermal Resistance (Note 1)	R _{θJT}	10	°C/W
Typical Junction Capacitance (Note 2)	CJ	15	pF
Operating Temperature Range	TJ	-55 to + 175	٥C
Storage Temperature Range	T _{STG}	-55 to + 175	٥C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

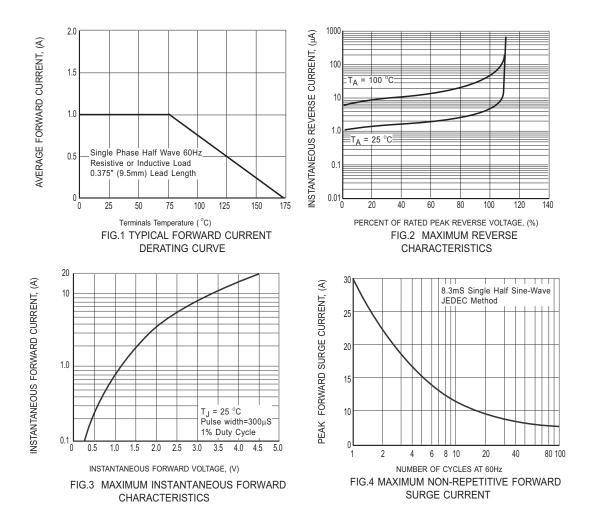
CHARACTERIS	STICS	SYMBOL	SM2000	UNITS
Maximum Instantaneous Forward Voltage	e at 1.0A DC	V _F	1.2	
Maximum Average Reverse Current	@T _A = 25°C	I-	5.0	uА
at Rated DC Blocking Voltage	@T _A = 100°C	IR	50	uА

NOTES: 1. Thermal Resistance :Mounted on PCB.

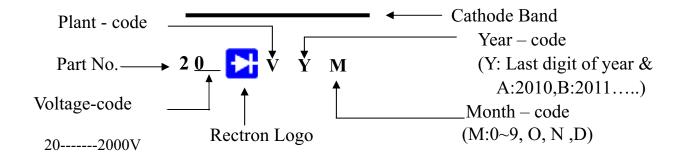
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

2018-09/78 REV:O

RATING AND CHARACTERISTICS CURVES (SM2000)



Mark Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
MELF	-T	1,500	6,000			178	390*205*310	48,000	10.19
MELF	-W	5,000	10,000			330	360*355*360	80,000	18.04

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