



SURFACE MOUNT DIODES GLASS PASSIVATED RECTIFIERS

VOLTAGE 50 to 1000 Volts CURRENT 1.0 Amperes MELF / DL-41

FEATURES

- For surface mounted applications.
- Glass passivated chip junction.
 Low leakage current.
- Plastic package has underwrites laboratory flammability classification 94v- 0
- \bullet High temperature soldering guaranteed: 250 °C / 10 seconds at terminals .
- Lead free in comply with EU RoHS 2002/95/EC directives

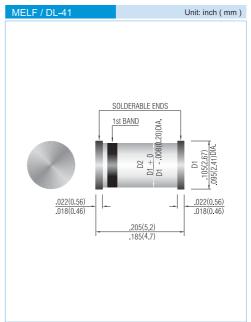
MECHANCALDATA

Case: Molded plastic,

Polarity: band indicate cathode .

Mounting Position: Any

Weight: 0.012 ounce, 0.3 gram.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	SM4001	SM4002	SM4003	SM4004	SM4005	SM4006	SM4007	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	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	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at TL=100°C	I _{F(AV)}	1.0							Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	30							А
Maximum Forward Voltage at 1.0A	V _F	1.1						V	
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =125°C	I _R	5.0 100						uA	
Typical Junction capacitance (Note 1)	C _J	15						pF	
Typical Thermal Resistance (Note 2)	R _{euL}	50						°C/W	
Operating and Storage Temperature Range	T_J , T_{STG}	-65 TO +150						°C	

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Thermal resistance from junction to terminal 6.0mm^2 copper pads to each terminal.





RATING AND CHARACTERISTIC CURVES

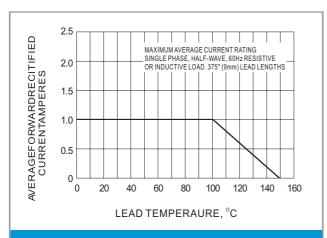


Fig.1- FORWARD CURRENT DERATING CURVE

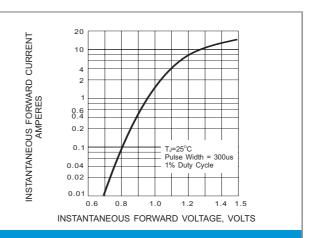


Fig.2- TYPICAL FORWARD CHARACTERISTIC

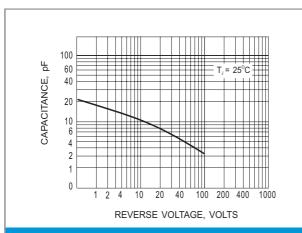


Fig.3- TYPICAL JUNCTION CAPACITANCE

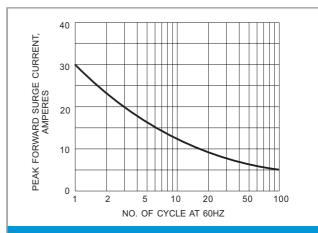
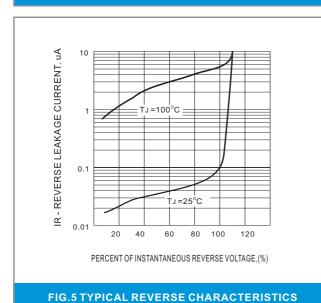


Fig.4- PEAK FORWARD SURGE CURRENT



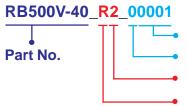




Part No_packing code_Version

SM4001_R2_100A1

For example:



Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX					Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code			
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	Т	26mm	X						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Υ						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





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