



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE

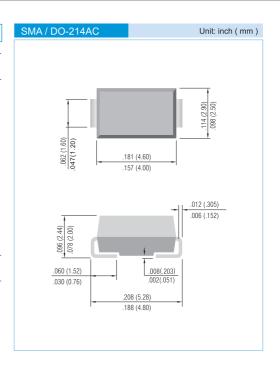
20 to 60 Volts CURRENT 1.0 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- Low profile package
- · Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- · Low power loss, high efficiency
- · High surge capacity
- High current capacity ,low V_F
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications.
- Lead free in comply with EU RoHS 2002/95/EC directives.

MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0023 ounce, 0.0679 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	SS12	SS13	SS14	SS15	SS16	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	50	60	V
Maximum RMS Voltage		14	21	28	35	42	V
Maximum DC Blocking Voltage		20	30	40	50	60	V
Maximum Average Forward Current at T _L =75°C	I _{F(AV)}	1.0					
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	30					
Maximum Forward Voltage at 1.0A (Note 1)	V _F	0.5 0.7				.7	V
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltage T _J =100°C	I _R	0.2 50			0.1 50		mA
Typical Thermal Resistance (Note 2)	R _{ejl} R _{eja}	28 88					°C / W
Operating Junction Temperature Range	T,	-55 to +125 -55 to +150				°C	
Storage Temperature Range	T _{stg}	-55 to +150					°C

NOTES:

- 1.Pulse Test with PW =300µsec, 1% Duty Cycle.
- 2.Mounted on P.C. Board with 5.0mm² (.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

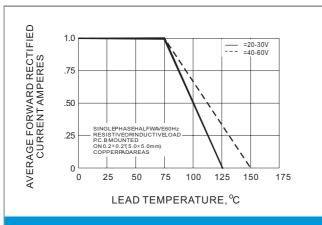


Fig. 1-FORWARD CURRENT DERATING CURVE

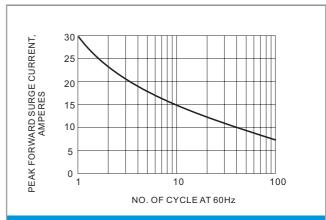


Fig.2- MAXIMUM NON-REPETITIVEPEAKFORWARD SURGE CURRENT

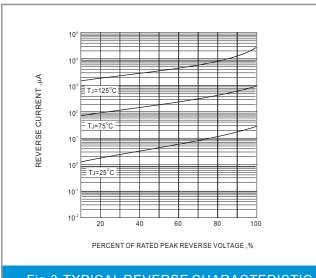


Fig.3-TYPICAL REVERSE CHARACTERISTIC

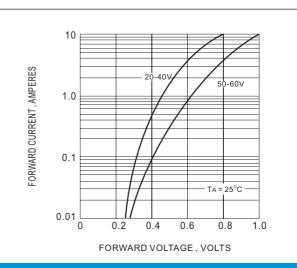
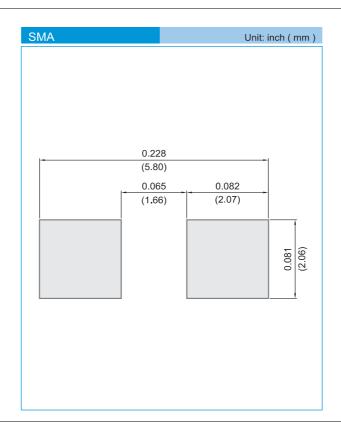


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8Kper 7" plastic Reel





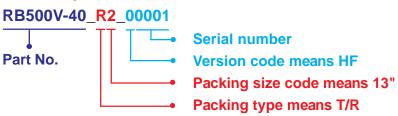
Part No_packing code_Version

SS12_R1_00001 SS12_R1_10001

SS12_R2_00001

SS12_R2_10001

For example:



Packing Code XX				Version Code XXXXXX				
Packing type	1st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	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	Y					
Tape and Reel (Left Oriented) (TRL)	٦	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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