

MS14~MS120

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

40 to 200 Volts CURRENT 1.0 Amperes

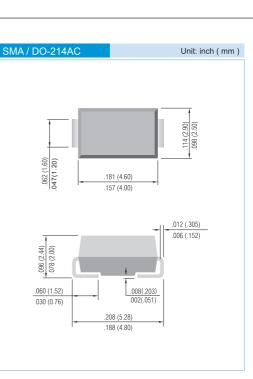
FEATURES

VOLTAGE

- 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. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	MS14	MS14A	MS15	MS16	MS18	MS19	MS110	MS115	MS120	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V _{rms}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See Figure 1)	I _{F(AV)}	1.0								A	
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	30									A
Maximum Forward Voltage at 1.0A (Note 1)	V _F	0.7 0.74					0.80		0.9		V
Maximum DC Reverse Current T _y =25°C at Rated DC Blocking Voltage T _y =100°C	I _R	0.05 20									mA
Typical Thermal Resistance (Note 2)	R _{⊕JL} R _{⊕JA}	30 95								°C / W	
Operating Junction and Storage Temperature Range	T _j ,T _{stg}	-55 to +150 -65 to +175								°C	

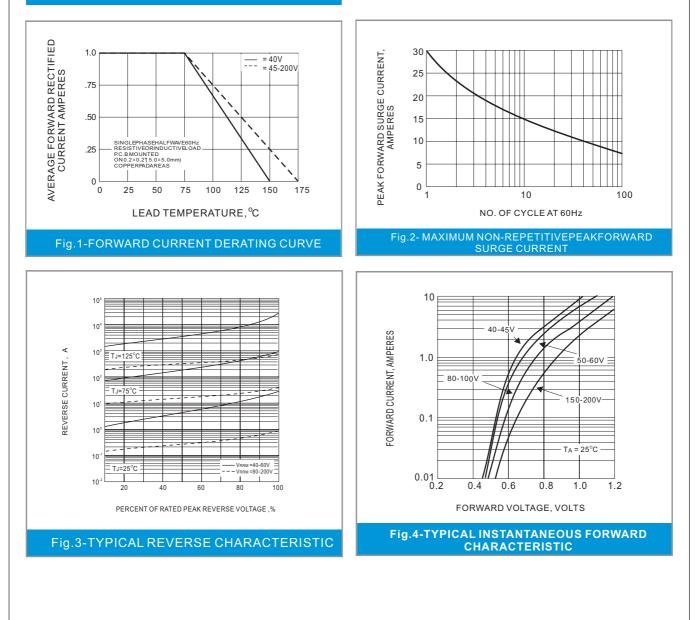
1.Pulse Test with PW =300µsec, 1% Duty Cycle.

2. Mounted on P.C. Board with 5.0 mm^2 (.013 mm thick) copper pad areas.



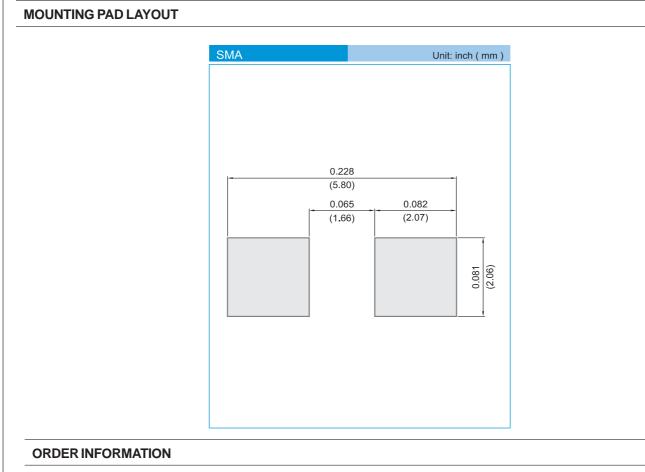
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RATING AND CHARACTERISTIC CURVES



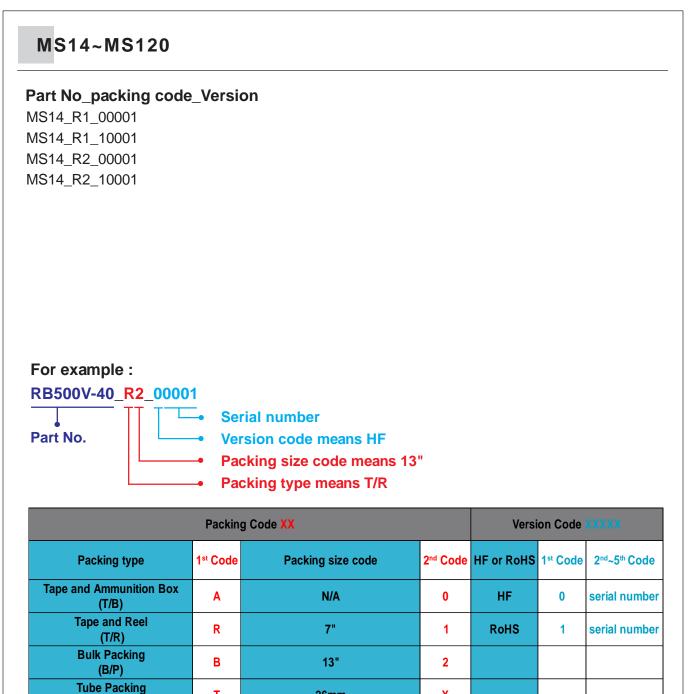


MS14~MS120



- Packing information
 T/R 7.5K per 13" plastic Reel
 - T/R 1.8Kper 7" plastic Reel





26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

Χ

Υ

U

D

Т

S

L

F

(T/P) Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING





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