

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								A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	30								A	
Maximum Forward Voltage at 1A (Notes 1)	V _F	0	0.7 0.74			0.8		0	.9	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage T_j =25°C		1 0.5						.5	μA		
Typical DC Reverse Current at Rated DC Blocking Voltage T _j =125°C	R	0.3			0.2		0.02		mA		
Typical Thermal Resistance (Notes 2)	R _{ejl} R _{eja}	30 95								°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{stg}	-55 to +150 -65 to +175								°C	

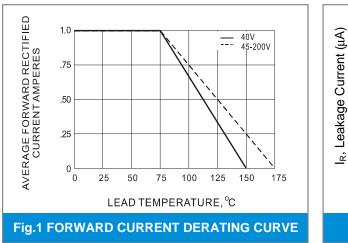
NOTES :

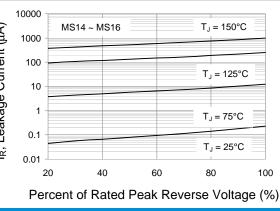
1.Pulse Test with PW =300 μ sec, 1% Duty Cycle.

2.Mounted on P.C. Board with $5 \mathrm{mm}^2$ (0.013 \mathrm{mm} thick) copper pad areas.

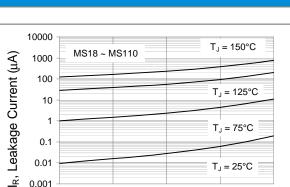


RATING AND CHARACTERISTIC CURVES





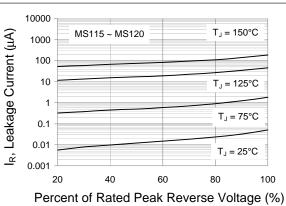




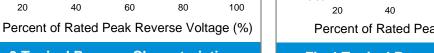
60

40

20







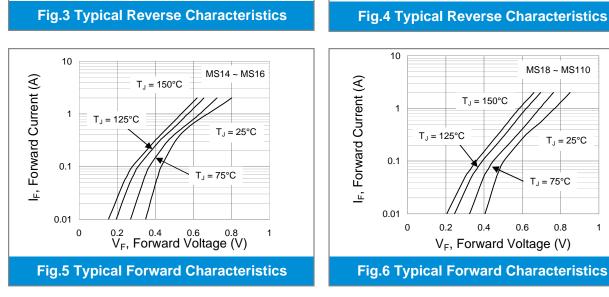


Fig.4 Typical Reverse Characteristics

T_J = 150°C

0.4

MS18 ~ MS110

 $T_J = 25^{\circ}C$

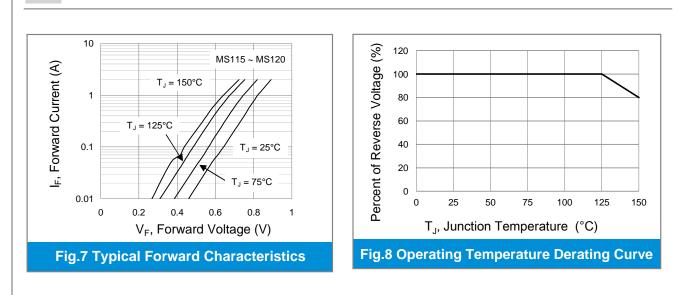
T_J = 75°C

0.8

1

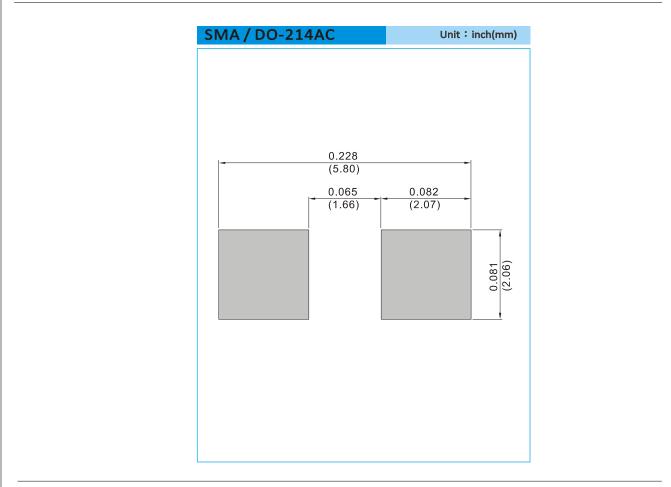
0.6







MOUNTING PAD LAYOUT



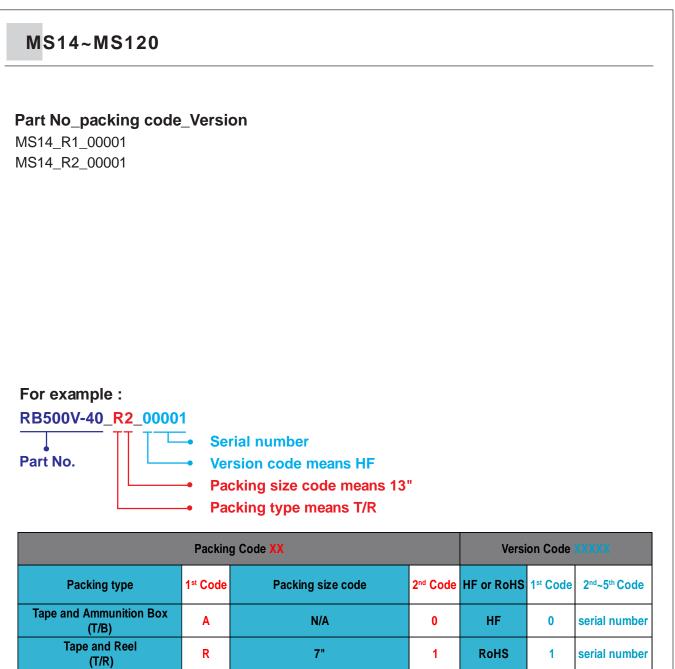
ORDER INFORMATION

Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





Bulk Packing

(B/P) Tube Packing

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

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

В

т

S

L

F

13"

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

2

Х

Y

U

D





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