

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		0.3				0.2			0.	02	mA
Typical Thermal Resistance (Notes 2)	${f R}_{_{ heta JL}} \ {f R}_{_{ heta JA}}$		30 95							°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{stg}	-55 to +150									°C

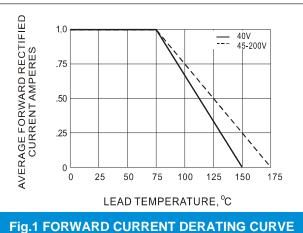
NOTES :

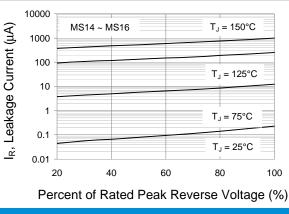
1.Pulse Test with PW =300µsec, 1% Duty Cycle.

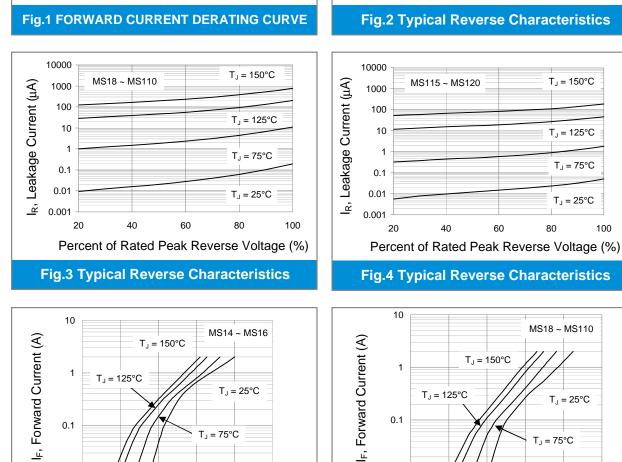
2. Mounted on P.C. Board with 5mm^2 (0.013 mm thick) copper pad areas.



RATING AND CHARACTERISTIC CURVES







0.01

0

0.2

0.4

Fig.6 Typical Forward Characteristics

V_F, Forward Voltage (V)

0.6

0.8

1

0.01

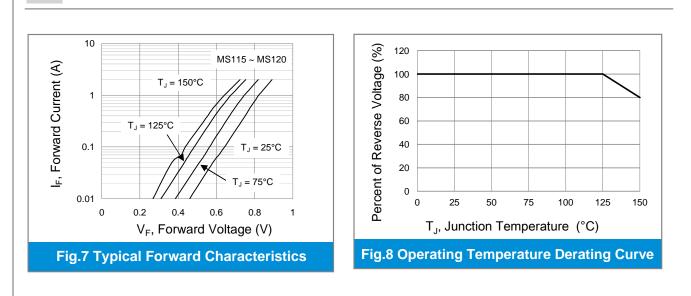
0

 $V_{\rm F}^{0.2}$, Forward Voltage (V)

Fig.5 Typical Forward Characteristics

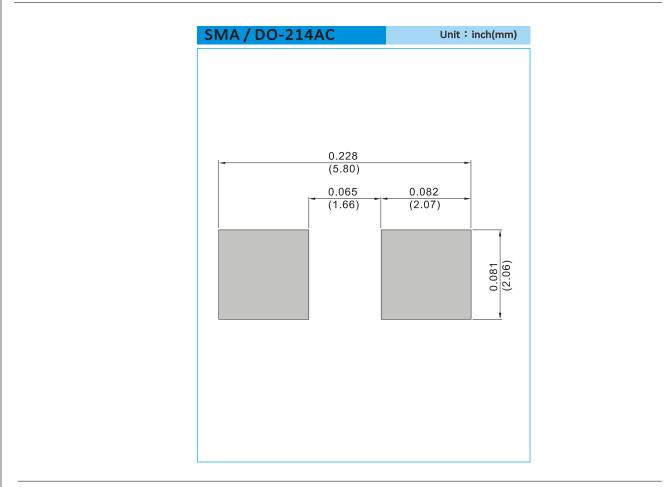
100







MOUNTING PAD LAYOUT



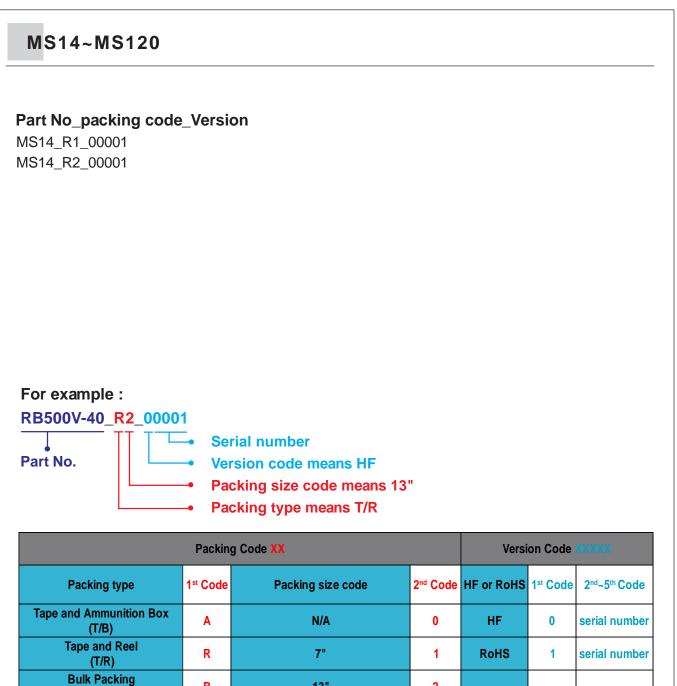
ORDER INFORMATION

Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





13"

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

2

Х

Y

U

D

В

Т

S

L

F

(B/P) Tube Packing

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

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit: MS14A_R1_00001 MS14A_R2_00001