

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Anode

Cathode

PARAMETER	SYMBOL	ER3AA	ER3BA	ER3CA	ER3DA	ER3EA	ER3GA	ER3JA	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	600	v
Maximum RMS Voltage	V <sub>rms</sub>	35	70	105	140	210	280	420	v
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	v
Maximum Average Forward Current	I <sub>F(AV)</sub>	3							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	80						A	
Maximum Forward Voltage at 3A	V <sub>F</sub>	0.95 1.25 1.7					1.7	v	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	1						μA	
Maximum Reverse Recovery Time (Notes 3)	t <sub>rr</sub>	35							ns
Typical Junction Capacitance Measured at 1MHz and applied V <sub>R</sub> =4V	C	45							pF
Typical Thermal Resistance (Notes 2) (Notes 1)	R <sub>eja</sub> R <sub>ejc</sub>	135 20							°C / W
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>stg</sub>	-55 to +150							°C

NOTES:1. Mounted on a FR4 PCB, single-sided copper, with 100 cm  $^2$  copper pad area

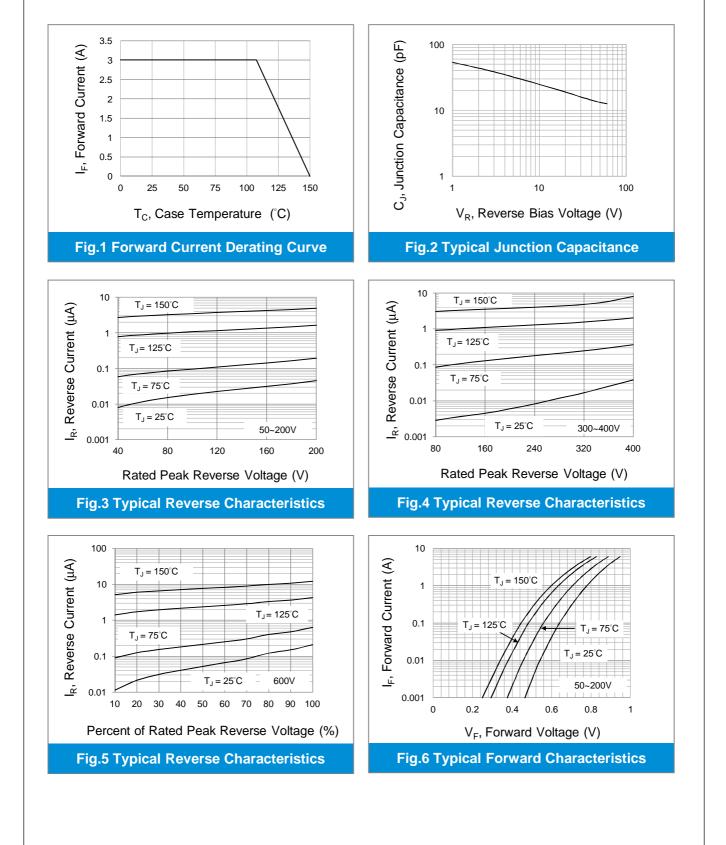
2. Mounted on a FR4 PCB, single-sided copper, mini pad.

3. Reverse Recovery Test Conditions:  $I_{\mbox{\scriptsize F}}\mbox{=}0.5\mbox{A}$  ,  $I_{\mbox{\scriptsize R}}\mbox{=}-1\mbox{A}$  Irr=-0.25\mbox{A}



PΛN

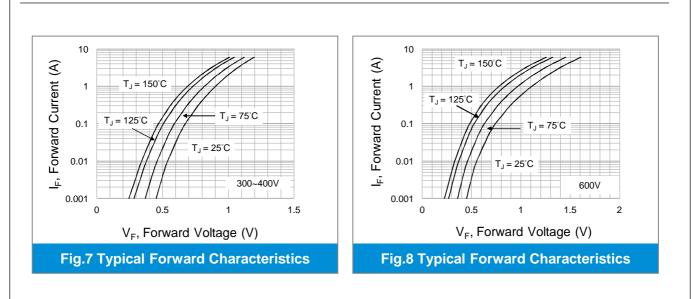






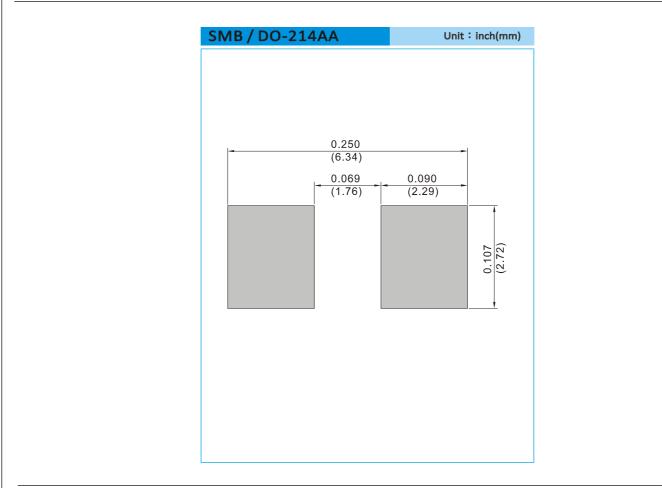








#### MOUNTING PAD LAYOUT



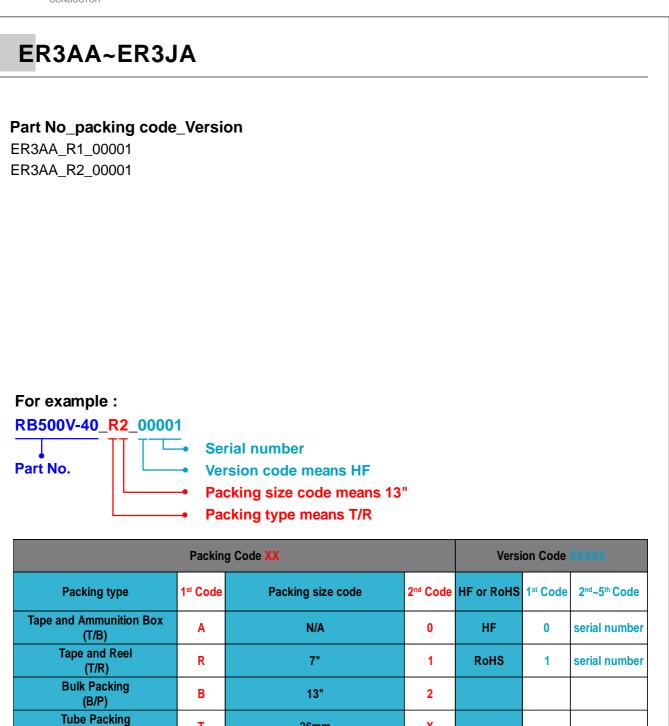
#### ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel





26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

Х

Y

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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