URFACE MOUNT RECTIFIER OLTAGE 50 to 1000 Volt CURREN		SMC / DO-214AB	Unit : inch(mm)
	<b>T</b> 3 Ampere		
EATURES			
Plastic package has Underwriters Laboratory Flammability Classification 94V-O For surface mounted applications in order to optimiz Easy pick and place Glass passivated junction	e board space	0.128(3.25)	0.245(6.22)
AEC-Q101 qualified Lead free in compliance with EU RoHS 2.0 Green molding compound as per IEC 61249 stands	ard	0.280(7.11) 0.260(6.60)	- 0.012(0.305) 0.006(0.152)
			(0.203) (0.051)
Case: JEDEC DO-214AB molded plastic Terminals: Solder plated, solderable per MIL-STD-75 Polarity: Color band denotes cathode end	50,Method 2026	<u>0.320(8.13)</u> 0.305(7.75)	
Standard packaging: 16mm tape (EIA-481) Weight: 0.0082 ounce, 0.2325 gram			
	0-0		
	Cathode Anode		

PARAMETER	SYMBOL	S3A-AU	S3B-AU	S3D-AU	S3G-AU	S3J-AU	S3K-AU	S3M-AU	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	v
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	v
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_{L}$ = 75°C	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>	200				A			
Maximum Forward Voltage at 3A		1.2						v	
Maximum DC Reverse Current at Rated DC Blocking $T_{J}$ =25°C Voltage $T_{J}$ =125°C		1 250						μA	
Maximum Junction Capacitance (Note 1)		53					рF		
Typical Junction Resistance (Note 2)	R <sub>ejl</sub> R <sub>eja</sub>	13 47			°C / W				
Operating Junction and Storage Temperature Range	T <sub>J</sub> ,T <sub>stg</sub>	-55 to +150				°C			

NOTES :

1.Measured at 1 MHZ and applied V\_R=4 volts.

 $2.8 \mbox{mm}^2 (0.013 \mbox{mm}$  thick)land areas.

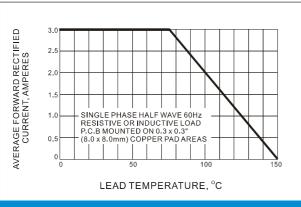




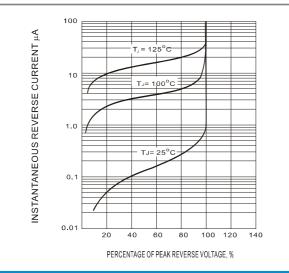


## S3A-AU~S3M-AU

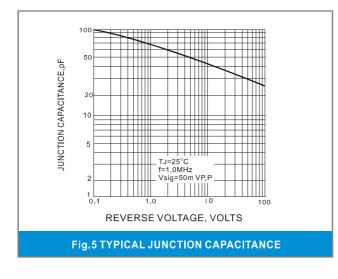
### **RATING AND CHARACTERISTIC CURVES**

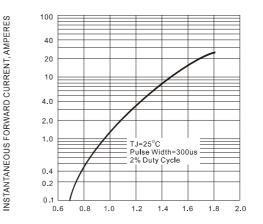


### Fig.1 FORWARD CURRENT DERATING CURVE



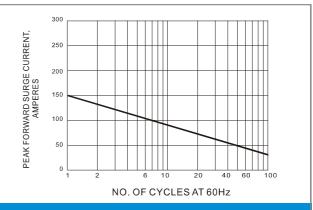
### Fig.3-TYPICAL REVERSE CHARACTERISTIC





#### INSTANTANEOUS FORWARD VOLTAGE, VOLTS

#### Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



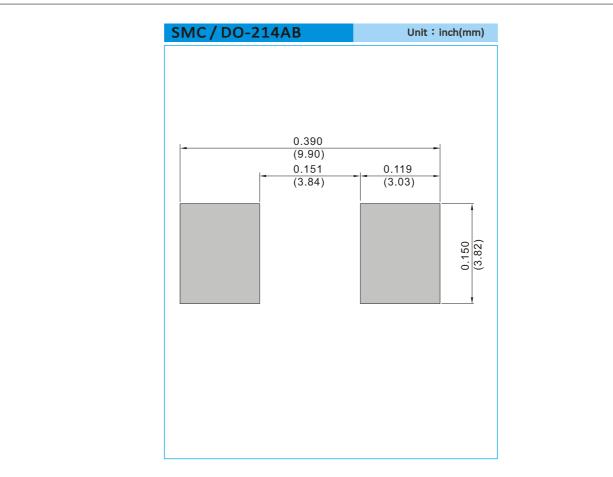
#### Fig.4 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT

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### MOUNTING PAD LAYOUT



#### **ORDER INFORMATION**

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel





### For example :

RB500V-40 R2 00001

Part No.

Serial number
 Version code means HF

Packing size code means 13"

• Packing type means T/R

Packing Code XX				Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code	
Tape and Ammunition Box (T/B)	A	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)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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