



VOLTAGE 20 to 60 Volt CURRENT 3 Ampere	SMA/DO-214AC	Unit : inch(mm)
FEATURES		
<ul> <li>Plastic package has Underwriters Laboratory Flammability Classification 94V-O</li> <li>For surface mounted applications in order to optimize board space</li> <li>Low power loss, high efficiency</li> <li>High surge capacity</li> <li>Lead free in compliance with EU RoHS 2.0</li> <li>Green molding compound as per IEC 61249 standard</li> </ul>	(091)2500 001)2500 0010 0.181(4.60) 0.157(4.00)	0.114(2.90)
MECHANICAL DATA • Cæse : JEDEC DO-214AC molded plætic • Terminals : Solder plated, solderæle per MIL-STD-750,Method 2026 • Polarity : Color band denotes cathode end • Standard packaging : 12mm tæpe (EIA-481) • Weight : 0.0023 ounces, 0.0679 grams	0.060(1.52) 0.030(0.76) 0.188(4.80)	
O 1 Cathode Anode		
AXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS		

PARAMETER		SYMBOL	SX32	SX33	SX34	SX35	SX36	UNITS
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Voltage		V <sub>rms</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	20	30	40	50	60	v
Maximum Average Forward Current		I <sub>F(AV)</sub>			3			А
Peak Forward Surge Current : 8.3ms single half sine- superimposed on rated load	wave	I <sub>fsm</sub>			80			А
Maximum Forward Voltage at 3A (Note 1)		V <sub>F</sub>		0.5		0.	75	v
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>J</sub> =25°C T <sub>J</sub> =100°C	I <sub>R</sub>		0.2 20	0.1 20			mA
Typical Thermal Resistance	(Note 2) (Note 3)	$f R_{_{ heta JL}} \ R_{_{ heta JA}}$			25 150			°C / W
Operating Junction and Storage Temperature Range		$T_{J},T_{STG}$	-55 to +125 -55 to +150		50	°C		

NOTES :

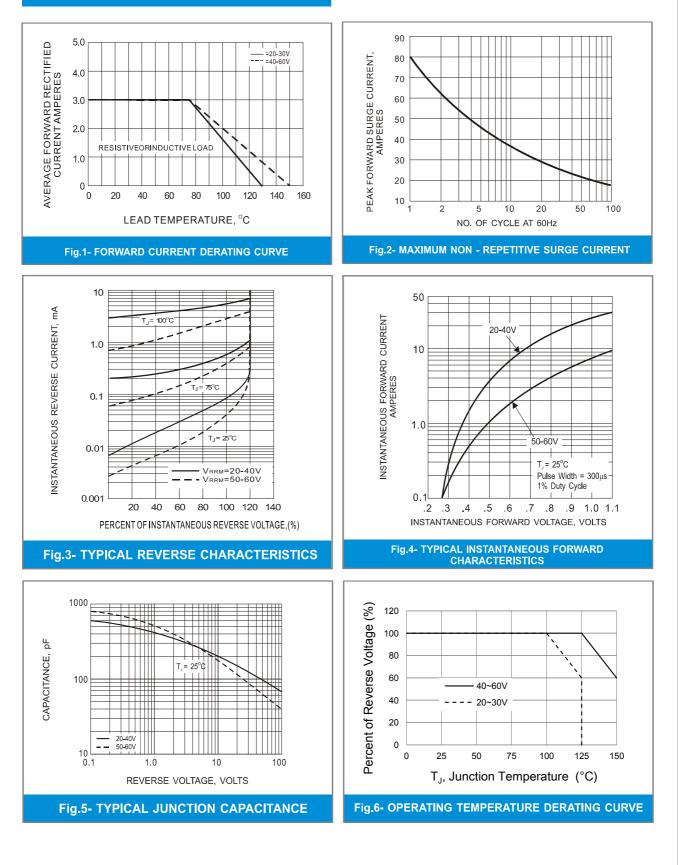
1. Pulse Test with PW =300µsec, 1% Duty Cycle.

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

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

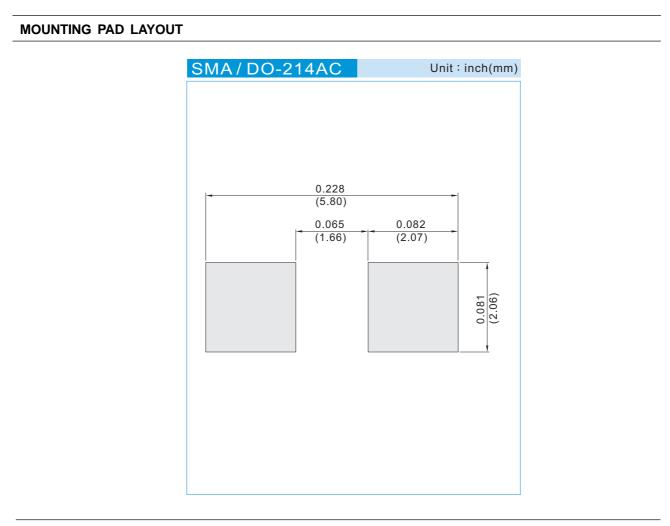


### RATING AND CHARACTERISTIC CURVES









#### **ORDER INFORMATION**

Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





### For example :

RB500V-40\_R2\_00001



- 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)	Α	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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