



SS12~S100

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

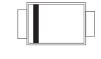
VOLTAGE 20 to 100 Volt CURRENT 1 Ampere

FEATURES

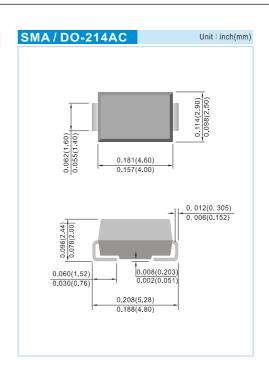
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications in order to optimize board space
- · Low power loss, high efficiency
- · High surge capacity
- High current capacity, low V_E
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case : JEDEC DO-214AC molded plastic
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0023 ounces, 0.0679 grams







Part Number: SS12~S100

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

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PARAMETER	SYMBOL	SS12	SS13	SS14	SS15	SS16	SS18	S100	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Current at T _L =75°C	I _{F(AV)}	1							А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30							Α
Maximum Forward Voltage at 1A (Note 1)	V _F		0.5 0.7 0.			85	V		
Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage T_J =100°C	I _R	0.2 6 0.1 5				0.5 2		mA	
Typical Thermal Resistance (Note 2)	$R_{\theta JL} R_{\theta JA}$	28 88					°C / W		
Operating Junction Temperature Range	T _J	-55 to +125						°C	
Storage Temperature Range	T _{stg}	-55 to +150						°C	

NOTES

- 1.Pulse Test with PW =300µsec, 1% Duty Cycle.
- 2. Mounted on P.C. Board with 5mm² (0.013mm thick) copper pad areas.

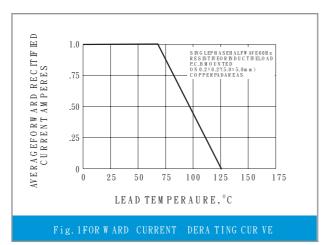
October 25,2017-REV.02 Fax : 02-25215390 極象有限公司 Tel : 02-25651052 PAGE . 1

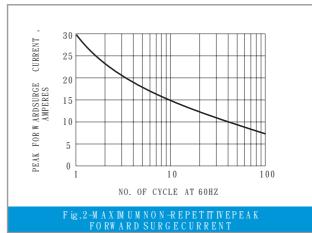




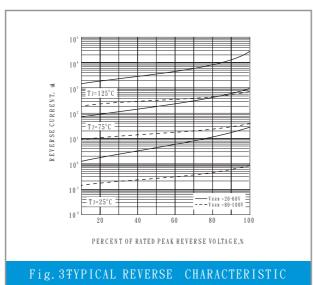
SS12~S100

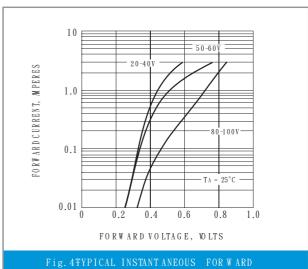
RATING AND CHARACTER ISTIC CURVES





Part Number: SS12~S100





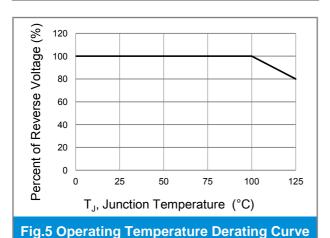
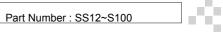


Fig. 4TYPICAL INSTANT ANEOUS FOR WARD CHARACTERISTIC

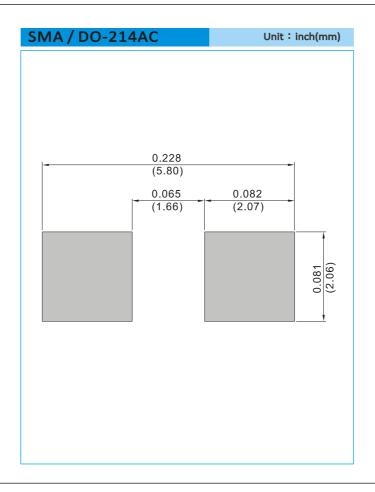
October 25,2017-REV.02 PAGE . 2 Fax: 02-25215390 極象有限公司 Tel: 02-25651052





SS12~S100

MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel

October 25,2017-REV.02 Fax: 02-25215390 極象有限公司 Tel: 02-25651052 PAGE: 3





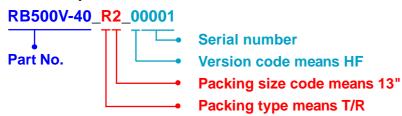
Part Number : SS12~S100

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Part No_packing code_Version

S100_R1_00001 S100_R2_00001

For example:



Packing Code XX				Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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					

October 25,2017-REV.02 Fax: 02-25215390 極象有限公司 Tel: 02-25651052 PAGE: 4





Part Number: SS12~S100

SS12~S100

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