

S52 THRU S525

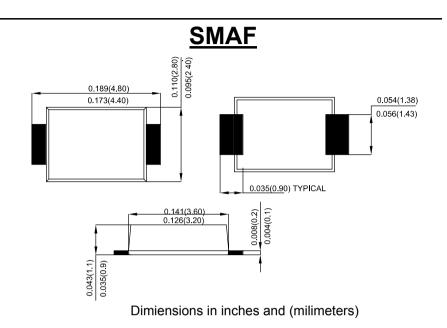
5.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Brrier Chip
- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 100APeak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- · Case: Molded plastic SMAF
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- · Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

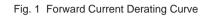
Type Number	SYMBOL	S 52	S 53	S 54	S 545	S 55	S 56	S 58	S 510	S 515	S 520	S 525	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	45	50	60	80	100	150	200	250	V
Maximum RMS Voltage	VRMS	14	21	28	31	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current @T∟=90°C	IF(AV)	5.0											А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	100										А	
I ² t Rating for Fusing (t < 8.3ms)	l²t	41.500											A ² s
Forward Voltage @IF=5.0A (Note1)	Vfm	0.55 0.7				0.8	85 0		.92	0.95	V		
Peak Reverse Current @T _A =25 °C		0.1 0.05							•				
At Rated DC Blocking Voltage @T _A =100 °C	IR	10 5										mA	
Typical Junction Capacitance	Сл	28											pF
Typical Thermal Resistance per leg (Note 2)	Reja	88											°C /W
Operating Temperature Range	TJ	-55 to+150											°C
Storage Temperature Range	Тѕтс	-55 to +150											°C

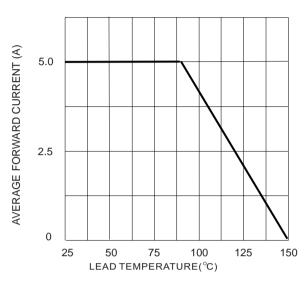
Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.

2.Mounted on P.C.Board with 5.0 mm² (0.13mm thick) copper pad areas.

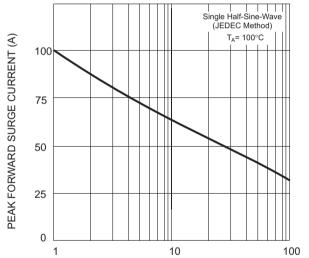


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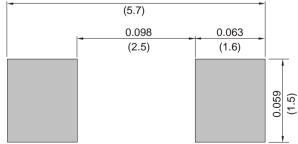












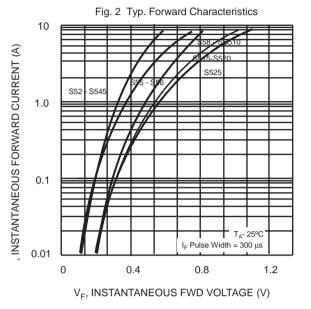
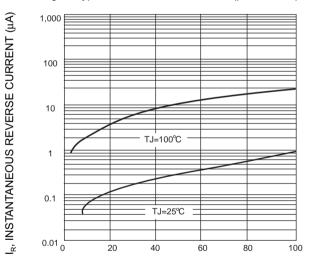


Fig. 4 T ypical Reverse Characteristics (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



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