

S22 THRU S225

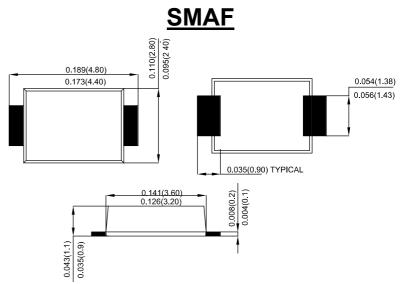
2.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- · Schottky Brrier Chip
- Low Power Loss, High Efficiency
- · Ideally Suited for Automatic Assembly
- · Surge Overload Rating to 50A Peak
- 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



Dimiensions in inches and (milimeters)

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%

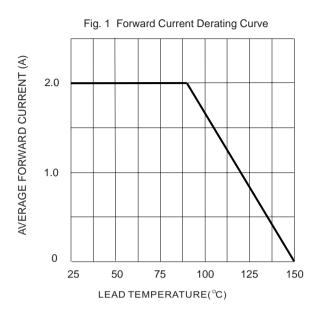
Type Number	SYMBOL	S 22	S 23	S 24	S 245	S 25	S 26	S 28	S 210	S 215	S 220	S 225	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	45	50	60	80	100	150	200	250	V
Maximum RMS Voltage	V _{RMS}	14	21	28	31	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current @T∟=90°C	l _{F(AV)}	2.0											Α
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	50										А	
I ² t Rating for Fusing (t < 8.3ms)	l²t	10.375											A ² s
Forward Voltage @IF=2.0A	V _{FM}	0.55			0.	7	0	.85	0.9	92	0.95	V	
Peak Reverse Current @T _A =25 °C			0.1 0.05								mA		
At Rated DC Blocking Voltage @T _A =100 °C	l _R	10 5											IIIA
Typical Junction Capacitance (Note 2)	Сı	28										pF	
Typical Thermal Resistance per leg	R⊕ JL	88											$^{\circ}$ C/W
Operating Temperature Range	ТJ	-55 to+150											$^{\circ}$ C
Storage Temperature Range	Тѕтс	-55 to +150											$^{\circ}$

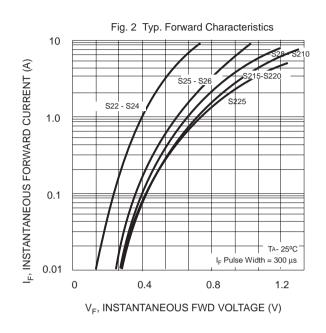
Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.

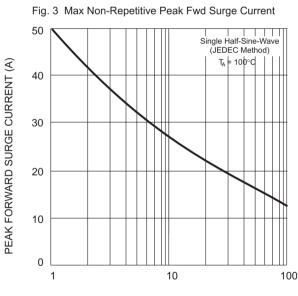
2.Mounted on P.C.Board with 5.0 $\text{mm}^2\ (0.13\text{mm thick})\ \text{copper pad areas}.$

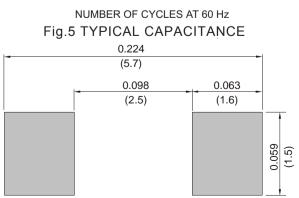


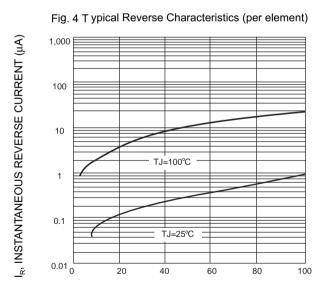
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PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



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