S22U THRU S225U

2.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

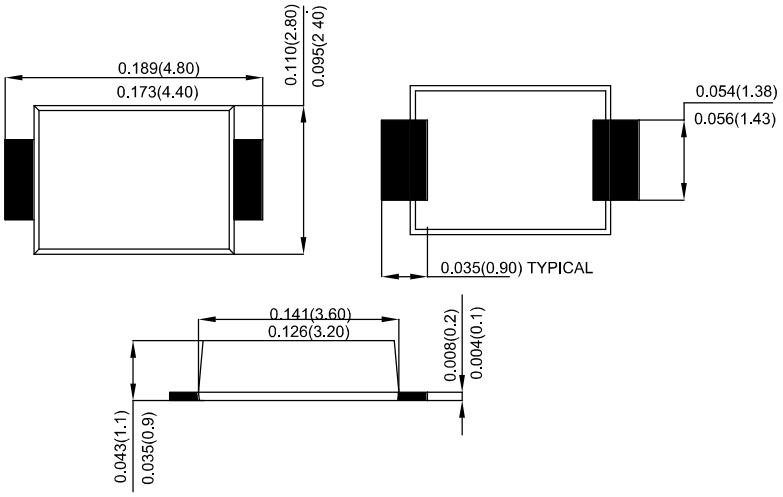
Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 60A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: Moeded 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

SMAF



Dimiensions in inches and (milimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ 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 22U	S 23U	S 24U	S 245U	S 25U	S 26U	S 28U	S 210U	S 215U	S 220U	S 225U	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	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	V_{DC}	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current @T_A =90℃	I_O	2.0											A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60											A
Forward Voltage @IF=2.0A	V_{FM}	0.50				0.67		0.82		0.90		0.95	V
Peak Reverse Current @T_A =25℃	I_R	0.1						0.05					mA
At Rated DC Blocking Voltage @T_A =100℃		10						5					
Typical Junction Capacitance (Note 2)	C_J	28											pF
Typical Thermal Resistance per leg	$R_{\theta JL}$	88											℃/W
Operating Temperature Range	T_J	-55 to+150											℃
Storage Temperature Range	T_{STG}	-55 to +150											℃

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. 1 Forward Current Derating Curve

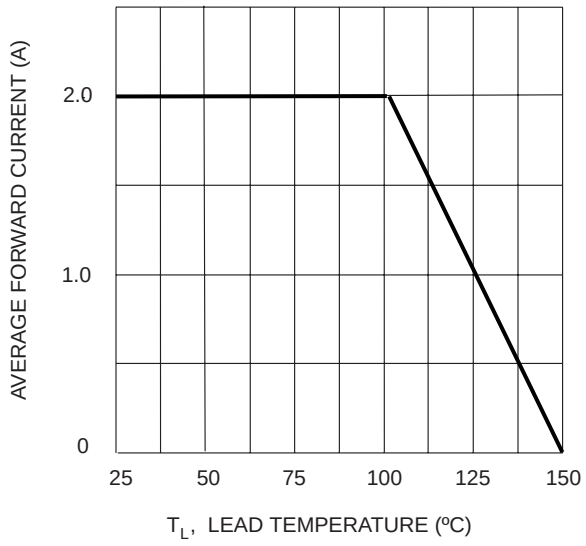

Fig. 2 Typ. Forward Characteristics

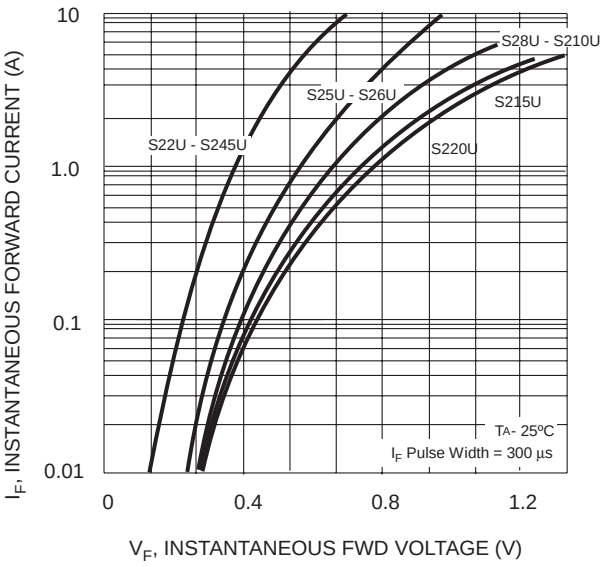

Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

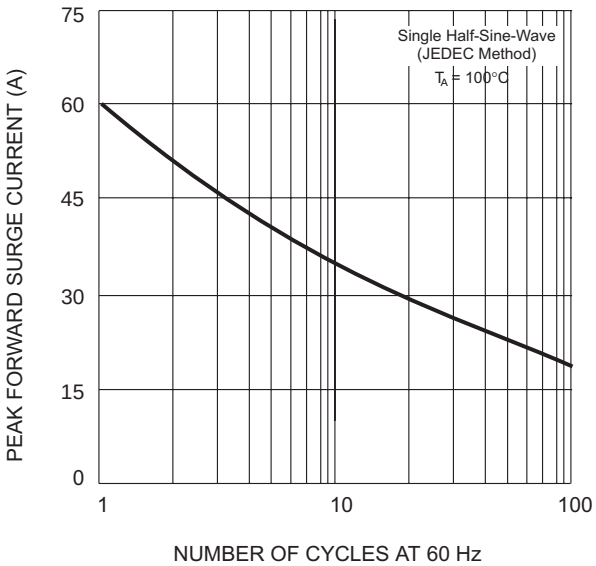

Fig. 4 T ypical Reverse Characteristics (per element)