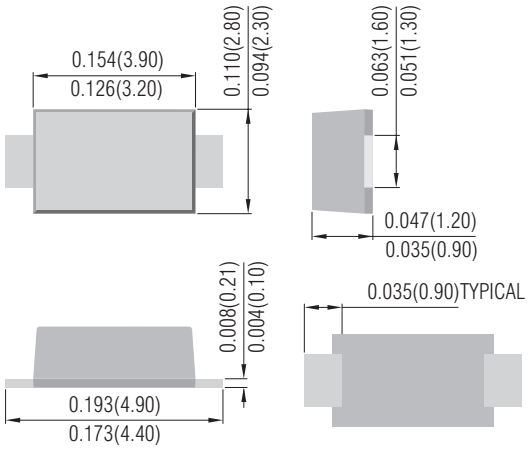
YEA SHIN TECHNOLOGY CO., LTD

S215 THRU S220

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
VOLTAGE- 150 to 200 Volts CURRENT- 2.0 Amperes

SMF Unit:inch(mm)



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: Molded plastic SMF
- 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℃ ambient temperature unless otherwise specified
Single phase,half wave,60Hz,resistive or inductive load
For capacitive load derate current by 20%

Type Number	SYMBOL	S215	S220	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	150	200	V
Maximum RMS Voltage	V_{RMS}	105	140	V
Maximum DC Blocking Voltage	V_{DC}	150	200	V
Average Rectified Output Current @T_L =90℃	$I_{F(AV)}$	2.0		A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60		A
Rating for fusing (t<8.3ms)	I^2t	14.94		A^2s
Forward Voltage @IF=2.0A	V_{FM}	0.90		V
Peak Reverse Current @T_A =25℃	I_R	0.05		mA
At Rated DC Blocking Voltage @T_A =100℃		5		
Typical Junction Capacitance (Note 1)	C_J	50		pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	75		℃/W
Operating Temperature Range	T_J	-55 to+150		℃
Storage Temperature Range	T_{STG}	-55 to +150		℃

Note:
1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
2. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.

DEVICE CHARACTERISTICS

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Fig. 1 Forward Current Derating Curve

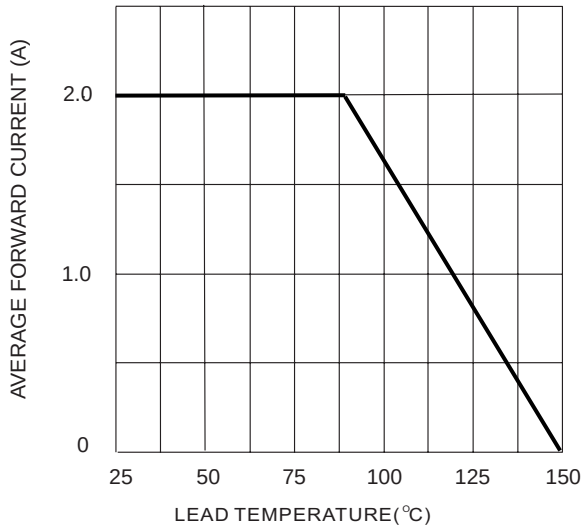

Fig. 2 Typ. Forward Characteristics

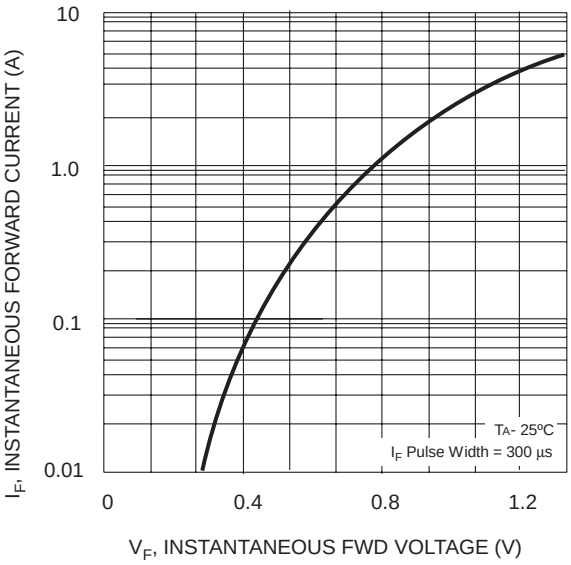

Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

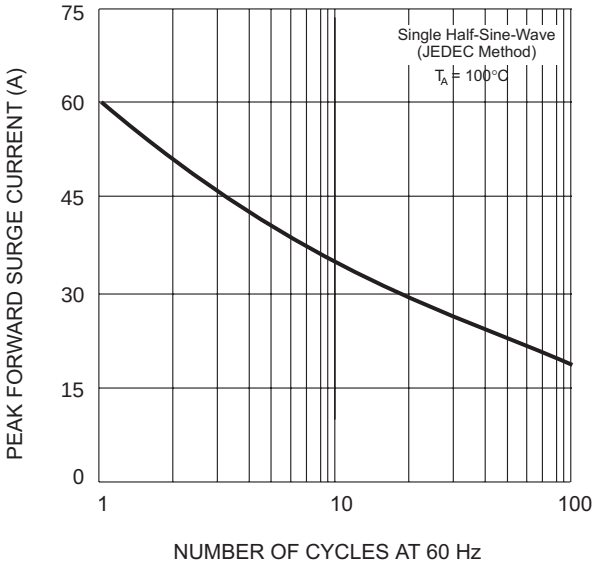

Fig. 4 T ypical Reverse Characteristics (per element)