

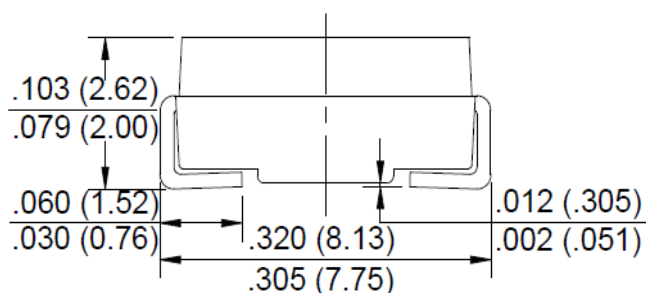
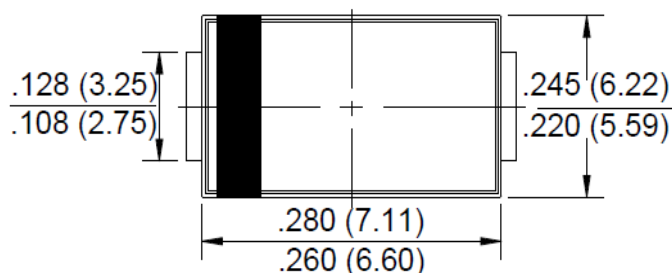
**Super Fast Recovery Glass Passivated Rectifiers****Reverse Voltage - 600 Volts
Forward Current - 5.0 Amperes****FEATURES**

- Low reverse leakage current
- Lead and body according
- Glass passivated chip junction
- High forward surge capability
- Fast switching for high efficiency
- High temperature soldering guaranteed:
260°C/10 seconds at terminals

MECHANICAL DATA

- Case: Molded Plastic
- Polarity: Color band denotes cathode
- Terminals: Solder plated
- Mounting position: Any

Note: Products with logo  or  are made by HY Electronic (Cayman) Limited.

SMC

Dimensions in inches and (millimeters)

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%

CHARACTERISTICS	SYMBOL	ES5J	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	V
Maximum RMS Voltage	V _{RMS}	420	V
Maximum DC Blocking Voltage	V _{DC}	600	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	125	A
Peak Forward Voltage at 5.0A DC	V _F	1.70	V
Maximum peak reverse current full cycle@T _J =75°C	I _{R(AV)}	30	μA
Maximum Reverse Recovery Time(Note 1)	T _{RR}	35	nS
Maximum reverse current T _J =25°C T _J =100°C	I _R	10 100	μA
Typical Junction Capacitance (Note2)	C _J	50	pF
Typical Thermal Resistance (Note3)	R _{θJA}	75	°C/W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

NOTES: 1.Measured with I_F=0.5A, I_R=1A, I_{RR}=0.25A

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

3.Thermal resistance junction to ambient.

4.The typical data above is for reference only.



FIG.1- FORWARD CURRENT DERATING CURVE

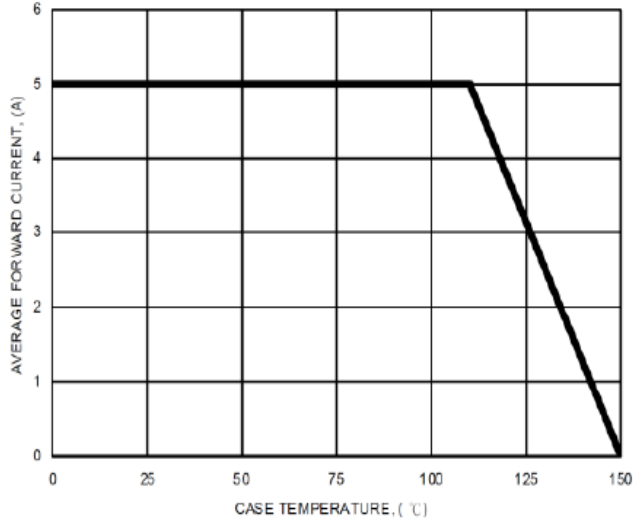


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

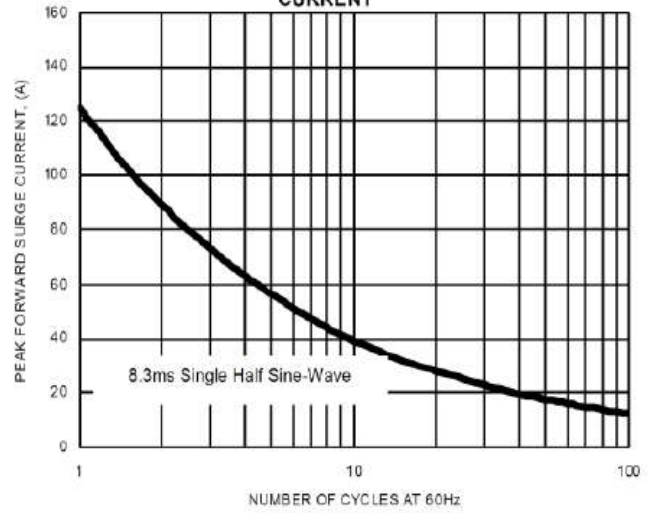


FIG.3- TYPICAL JUNCTION CAPACITANCE

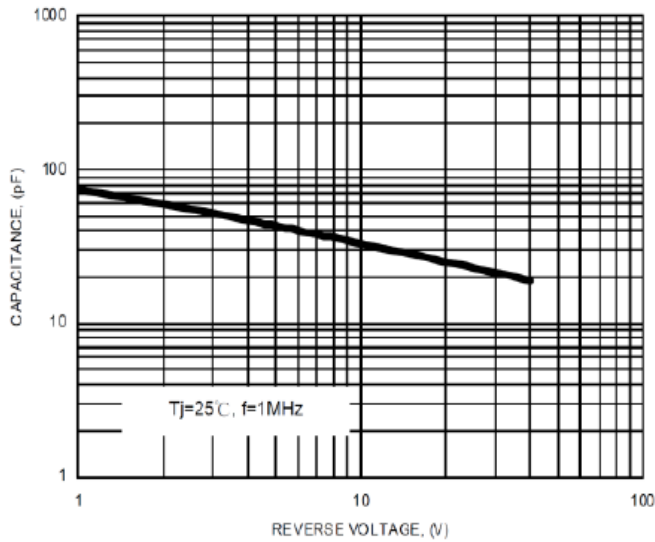


FIG.4- TYPICAL FORWARD CHARACTERISTICS

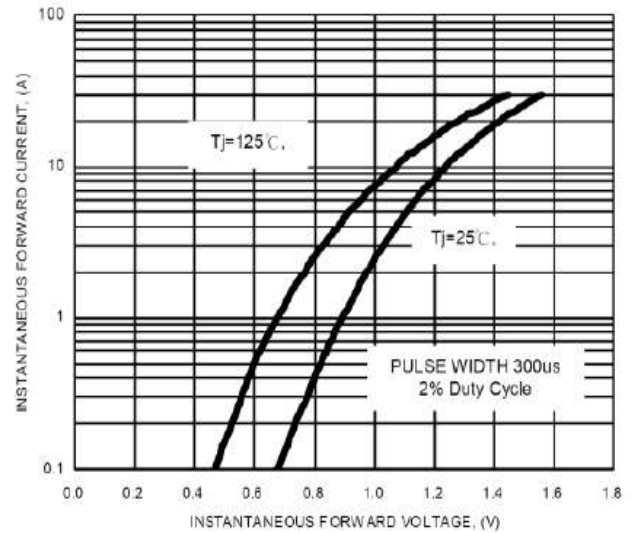
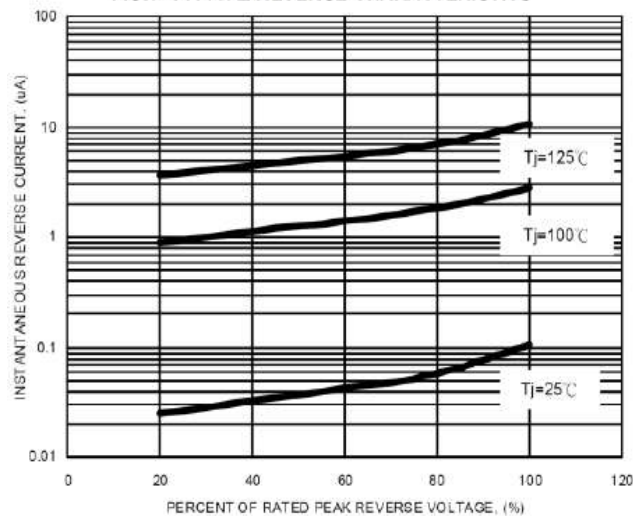


FIG.5- TYPICAL REVERSE CHARACTERISTICS



The curve above is for reference only.



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