25SQ030 THRU 25SQ060

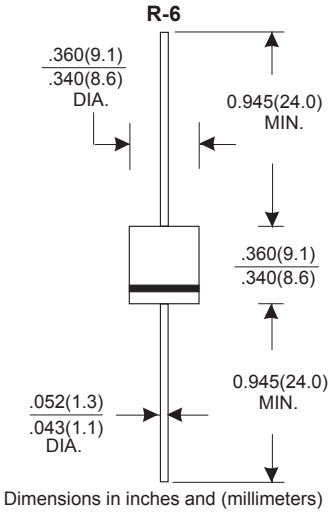
SCHOTTKY BARRIER RECTIFIERS



REVERSE VOLTAGE - **30** to **60**Volts
FORWARD CURRENT - **25.0** Amperes

FEATURES

- Metal of silicon rectifier , majority carrier conduction
- Guard ring for transient protection
- Low power loss,high efficiency
- High current capability,low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: R-6 molded plastic
- Polarity: As marked on the body
- Mounting position :Any

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%

CHARACTERISTICS	SYMBOL	25SQ 030	25SQ 035	25SQ 040	25SQ 045	25SQ 050	25SQ 055	25SQ 060	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	35	40	45	50	55	60	V
Maximum RMS Voltage	V_{RMS}	21	25	28	32	35	39	42	V
Maximum DC Blocking Voltage	V_{DC}	30	35	40	45	50	55	60	V
Maximum Average Forward Rectified Current (See Fig.1) @T_C=95 ℃	$I_{(AV)}$	25							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	275							A
Peak Forward Voltage at 12.5A DC(Note1)	V_F	0.55				0.7			V
Maximum DC Reverse Current @T_J=25℃ at Rated DC Bolcking Voltage @T_J=125℃	I_R	0.5 50							mA
Typical Thermal Resistance(Note2)	$R_{\theta Jc}$	1.8							℃/W
Operating Temperature Range	T_J	-55 to +200							℃
Storage Temperature Range	T_{STG}	-55 to +200							℃

NOTES:1.300us pulse width,2% dudy cycle.

2.ThermalResistanceJunctiontolead/terminalatadistance1mmfromcase.

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25SQ030 thru 25SQ060

FIG. 1 – FORWARD CURRENT DERATING CURVE

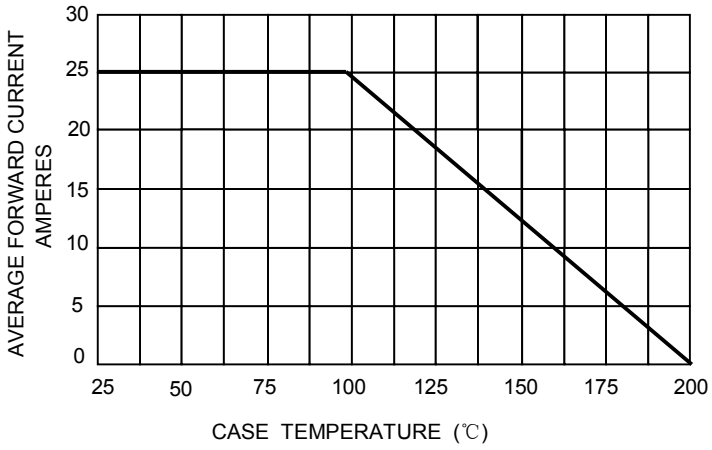


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

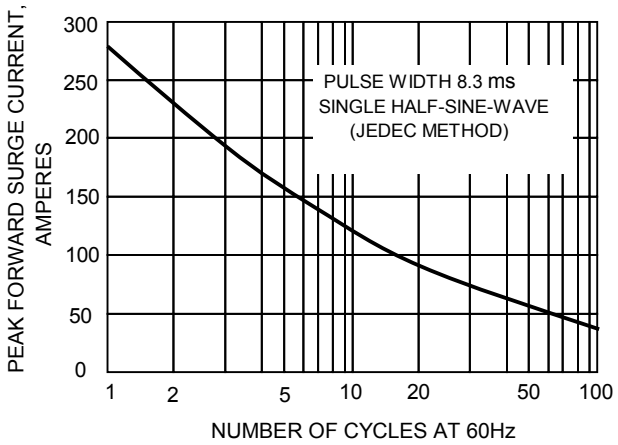


FIG.3-TYPICAL REVER CHARACTERISTICS

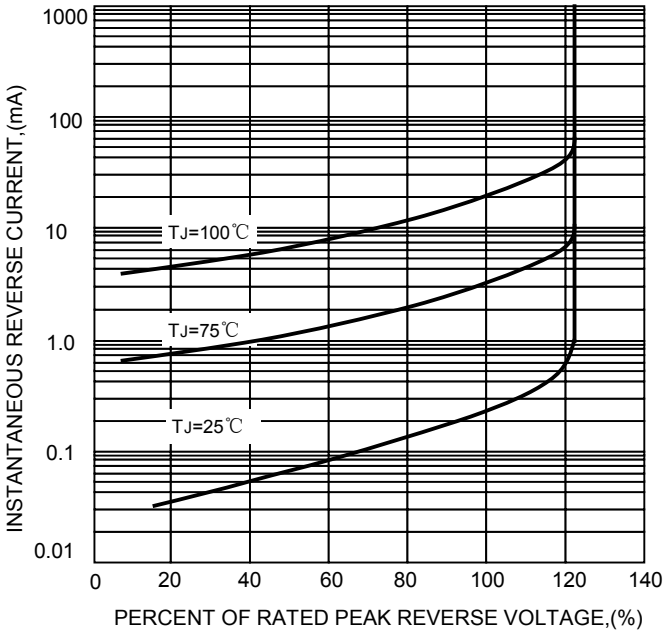
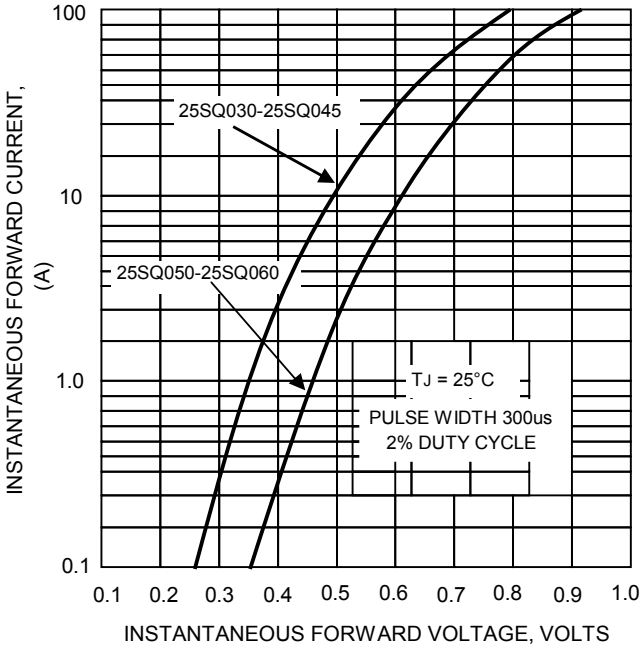


FIG.4-TYPICAL FORWARD CHARACTERISTICS



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