

SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 30 to 60Volts FORWARD CURRENT - 25.0 Amperes
<p>FEATURES</p> <ul style="list-style-type: none"> ●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 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> ●Case: TO-220AC molded plastic ●Polarity: As marked on the body ●Mounting position :Any 	<p>TO-220AC</p> <p>Dimensions in inches and (millimeters)</p>

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	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 °C	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°C at Rated DC Bolcking Voltage @T _J =125°C	I _R	0.5			50				mA
Typical Thermal Resistance(Note2)	R _{θjc}	12							°C/W
Operating Temperature Range	T _J	-55 to +200							°C
Storage Temperature Range	T _{STG}	-55 to +200							°C

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

2.Thermal Resistance Junction to case(without heatsink).

FIG. 1 – FORWARD CURRENT DERATING CURVE

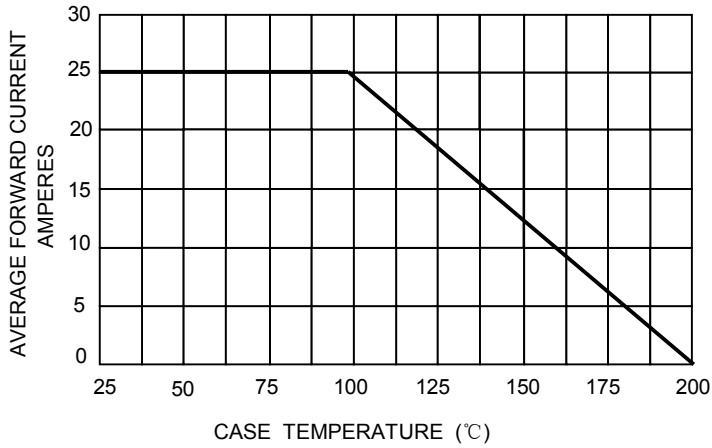


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

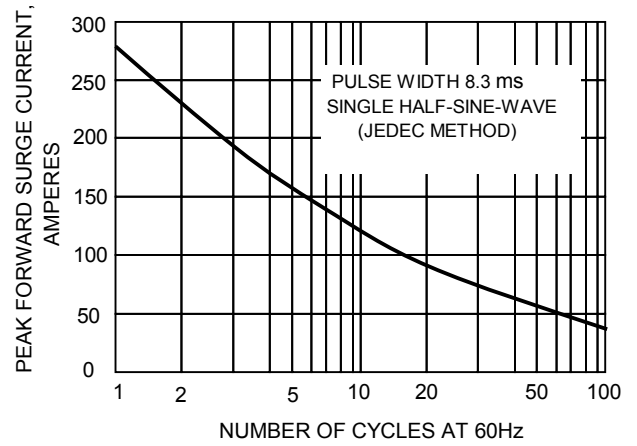


FIG.3-TYPICAL REVER CHARACTERISTICS

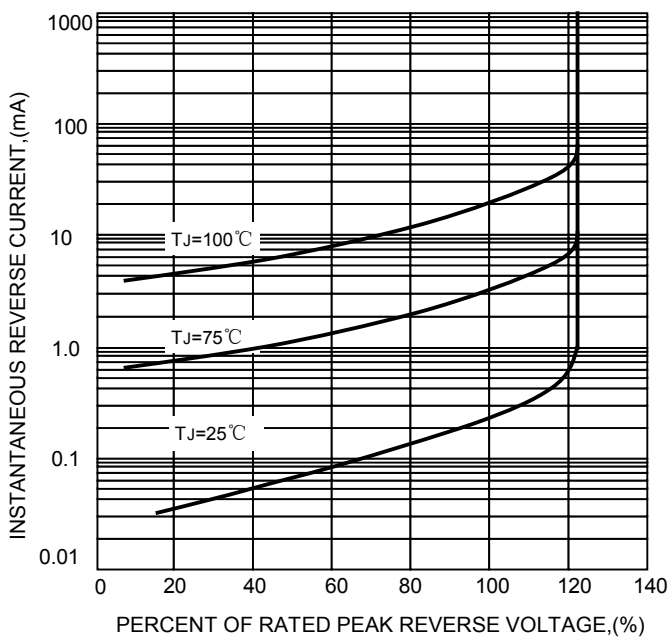


FIG.4-TYPICAL FORWARD CHARACTERISTICS

