

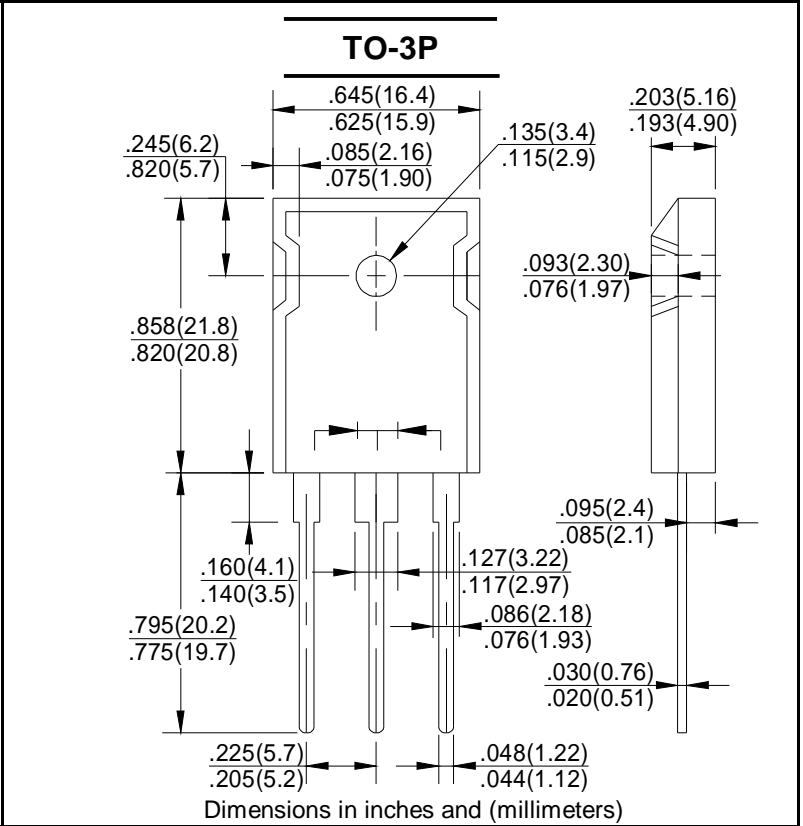
SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 30 to 150Volts FORWARD CURRENT - 40.0 Amperes
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FEATURES

- 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

MECHANICAL DATA

- Case: TO-3P molded plastic
- Polarity: As marked on the body
- Weight: 0.2ounces,5.6 grams
- Mounting position :Any



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	SR 4030	SR 4040	SR 4050	SR 4060	SR 4080	SR 40100	SR 40150	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	40	50	60	80	100	150	V
Maximum RMS Voltage	V _{RMS}	21	28	35	42	56	70	105	V
Maximum DC Blocking Voltage	V _{DC}	30	40	50	60	80	100	150	V
Maximum Average Forward Rectified Current (See Fig.1) @T _C =100°C	I _(AV)	40							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	375							A
Peak Forward Voltage at 20.0A DC	V _F	0.55	0.60	0.70	0.85	0.85	0.95		V
Maximum DC Reverse Current @T _J =25°C at Rated DC Bolcking Voltage @T _J =100°C	I _R	1.0 100							mA
Typical Junction Capacitance (Note1)	C _J	800							pF
Typical Thermal Resistance (Note2)	R _{θJC}	1.4							°C/W
Operating Temperature Range	T _J	-55 to + 150							°C
Storage Temperature Range	T _{STG}	-55 to + 150							°C

NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0VDC.
 2.Thermal resistance junction to case.

FIG. 1 – FORWARD CURRENT DERATING CURVE

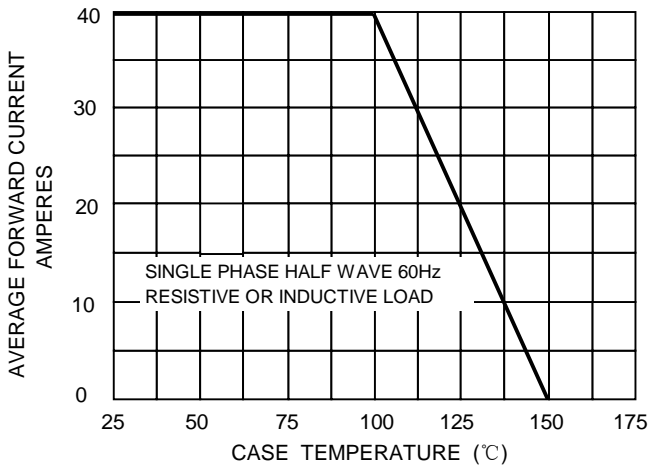


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

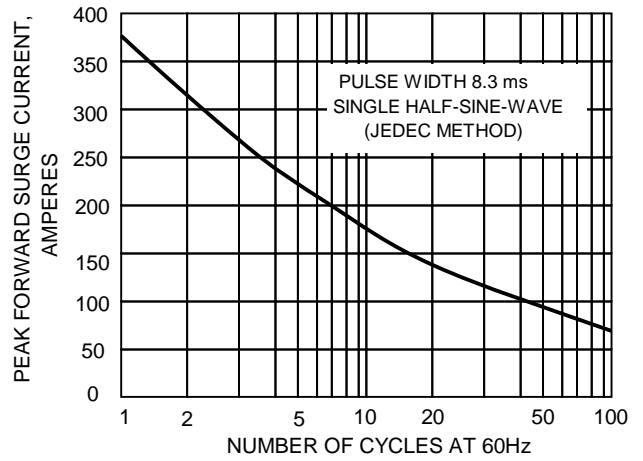


FIG.3-TYPICAL REVER CHARACTERISTICS

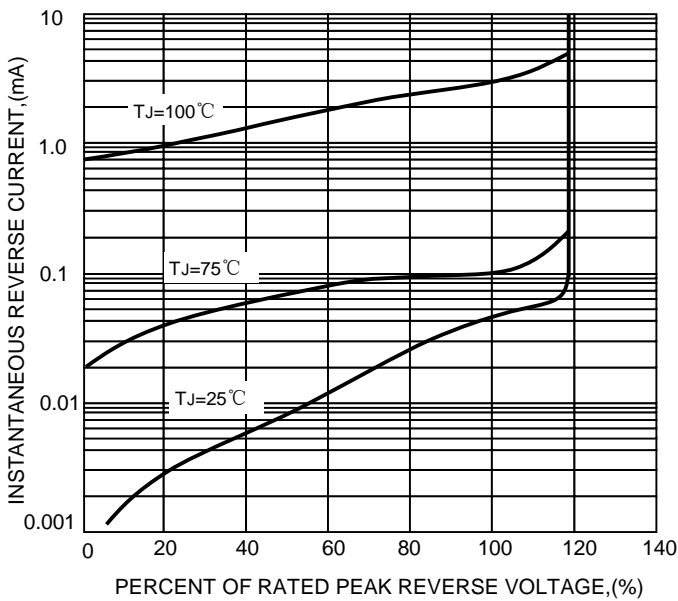


FIG.4-TYPICAL FORWARD CHARACTERISTICS

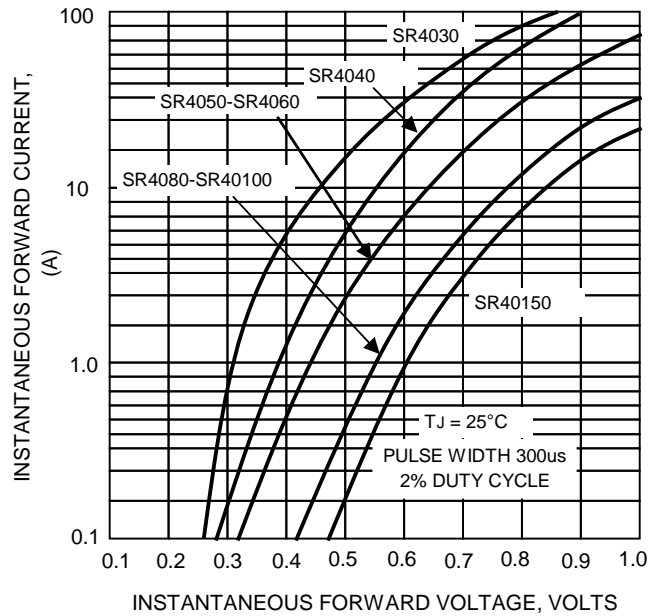


FIG.5 – TYPICAL JUNCTION CAPACITANCE

