



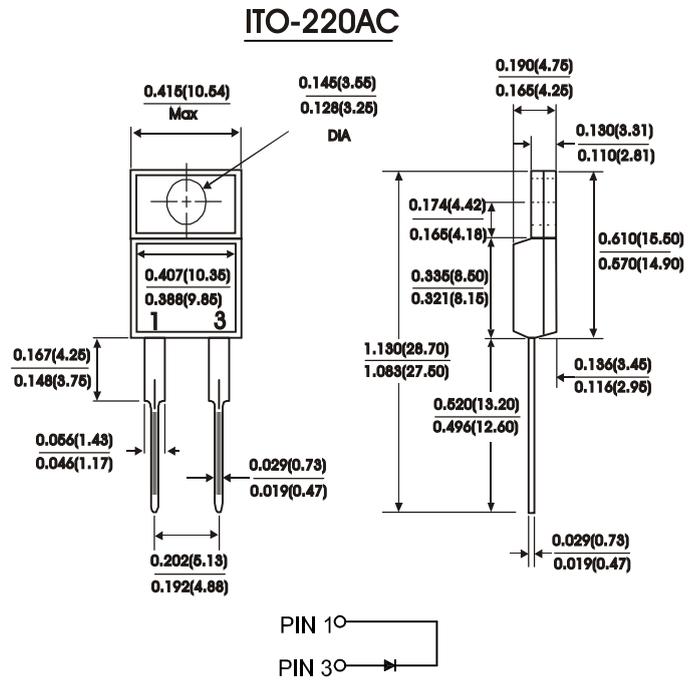
SCHOTTKY BARRIER RECTIFIERS

FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction Majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25"(6.35mm) from case

MECHANICAL DATA

Case : JEDEC ITO-220AC molded plastic
 Terminals : Leads solderable per MIL-STD-750 Method 2026
 Polarity : As marked
 Mounting Position : Any
 Mounting Torque 5 In - lbs. max
 Weight : 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
 Single phase half wave, 60 Hz resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristic	Symbol	SRF2090	SRF20100	Units
Maximum recurrent peak reverse voltage	V _{RRM}	90	100	Volts
Maximum RMS voltage	V _{RMS}	63	70	Volts
Maximum DC blocking voltage	V _{DC}	90	100	Volts
Maximum average forward rectified current at T _c = 125 °C	I _(AV)	20		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	300		Amps
Maximum instantaneous forward voltage (NOTE 2) I _F = 20A	V _F	0.95		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 2) T _c = 25 °C T _c = 100 °C	I _R	0.1 6.0		mA
Typical thermal resistance (NOTE 1)	R _{th-JC}	6.0		°C/W
Operating temperature range	T _J	-65to +150		°C
Storage temperature range	T _{Stg}	-65to +175		°C

NOTES:

- (1) Thermal resistance from junction to case
- (2) Pulse test : 300 us pulse width, 1% duty cycle



RATINGS AND CHARACTERISTIC CURVES

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

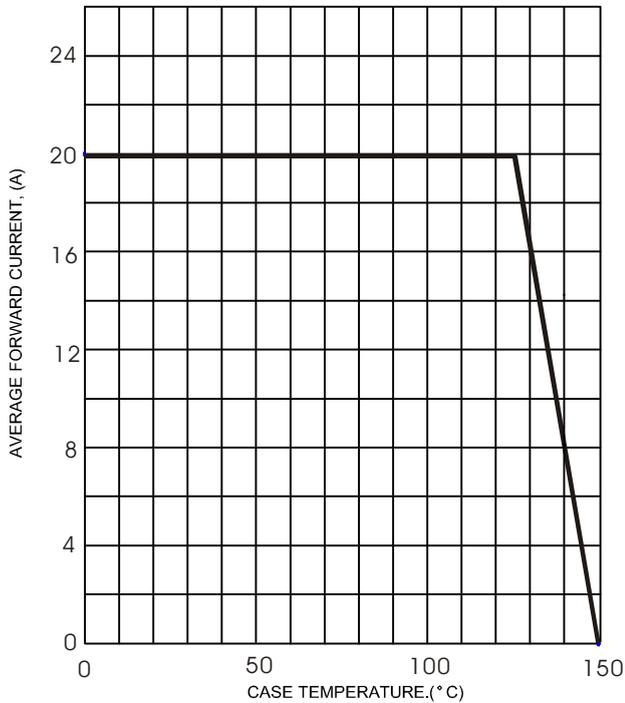


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

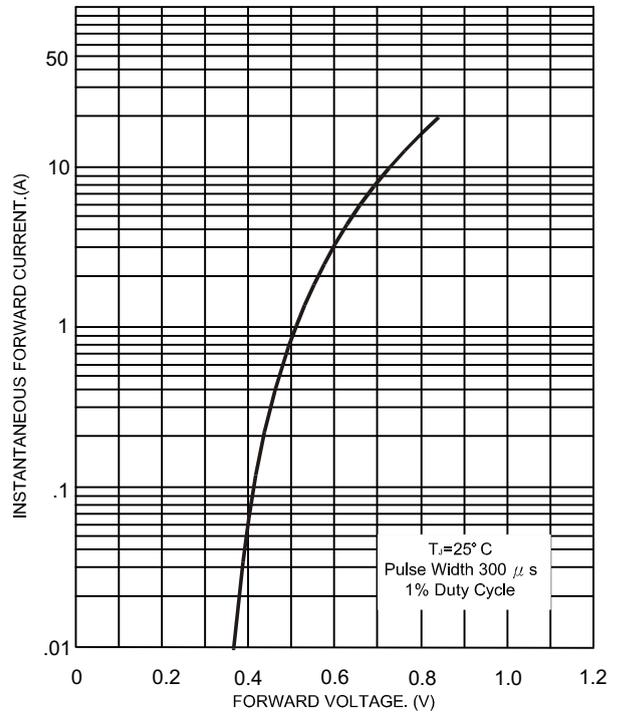


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

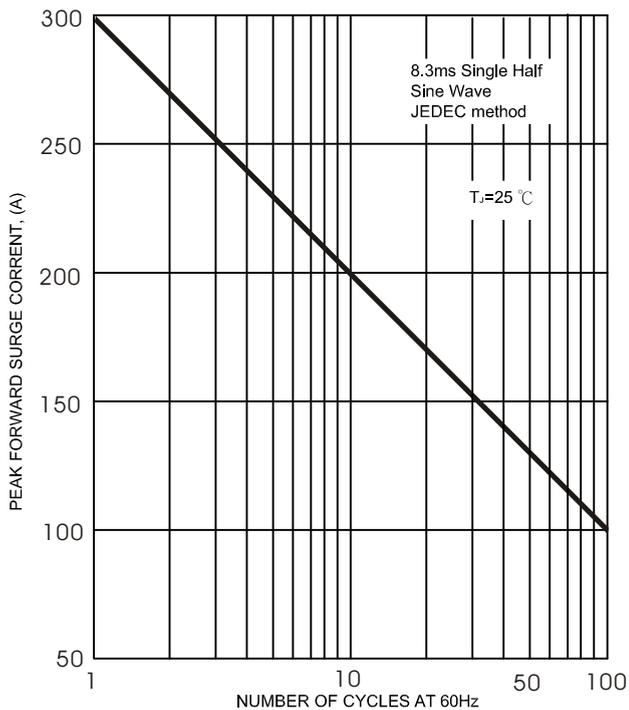
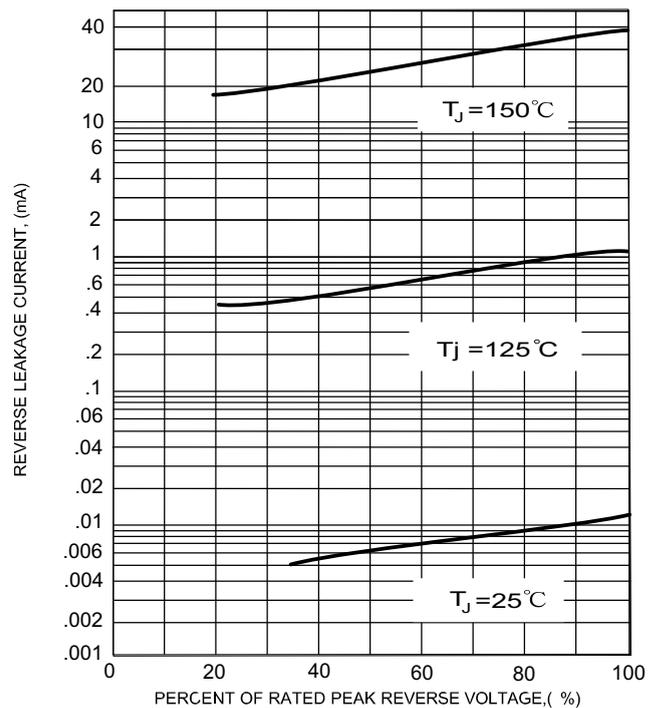


FIG.4- TYPICAL REVERSE CHARACTERISTICS





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