



SR2030CT thru SR20150CT

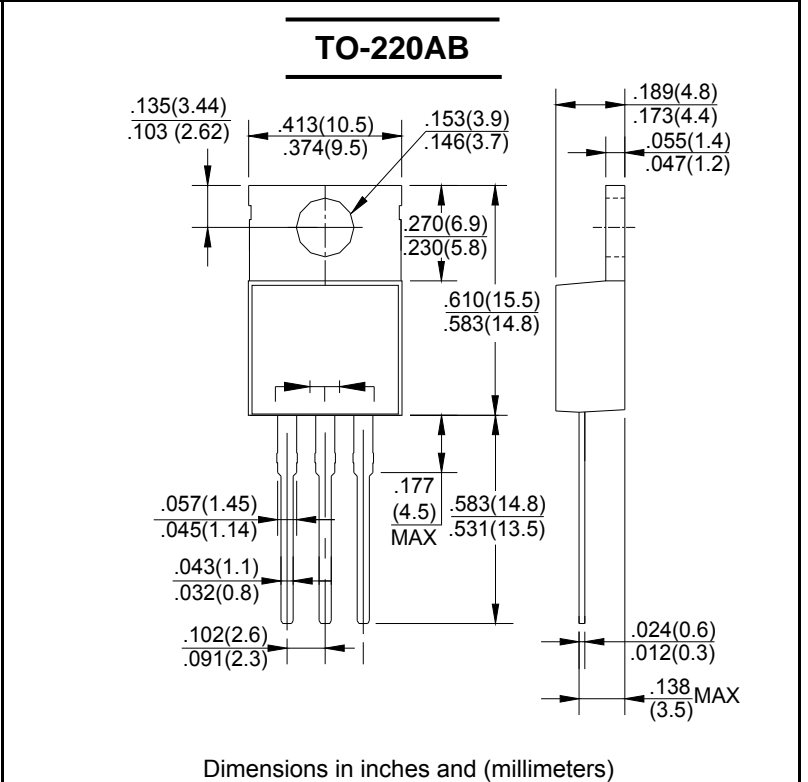
SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 30 to 150Volts FORWARD CURRENT - 20.0 Amperes
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FEATURES

- 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-220AB molded plastic
- Polarity: As marked on the body
- Weight: 0.08ounces,2.24 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 2030CT	SR 2040CT	SR 2050CT	SR 2060CT	SR 2080CT	SR 20100CT	SR 20150CT	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 =95 °C	I _(AV)	20							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	200							A
Peak Forward Voltage at 10.0A DC(Note1)	V _F	0.55		0.70		0.85		0.95	V
Maximum DC Reverse Current at Rated DC Bolcking Voltage @T _J =25°C @T _J =100°C	I _R	1.0 50							mA
Typical Junction Capacitance (Note2)	C _J	600							pF
Typical Thermal Resistance (Note3)	R _{θJC}	2.0							°C/W
Operating Temperature Range	T _J	-55to+150							°C
Storage Temperature Range	T _{STG}	-55to+150							°C

NOTES:1.300us pulse width,2% duty cycle.
 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
 3.Thermal resistance junction to case.
 4.The typical data above is for reference only(典型值仅供参考).

FIG. 1 – FORWARD CURRENT DERATING CURVE

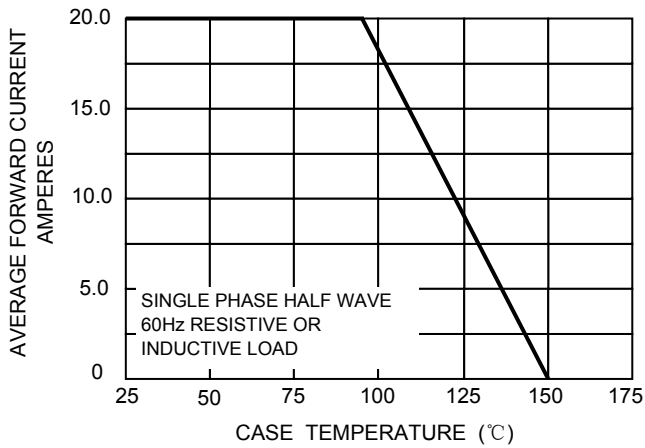


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

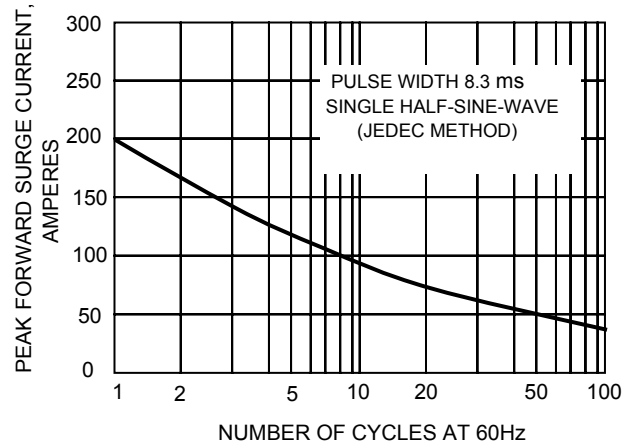


FIG.3-TYPICAL REVERSE

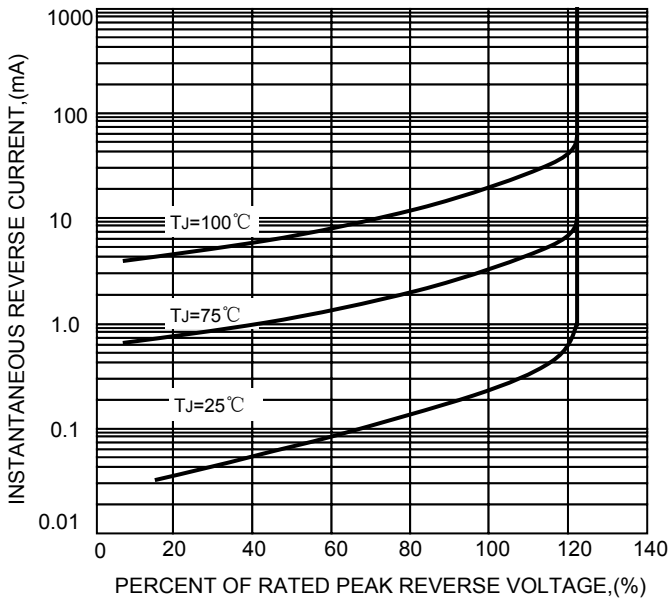


FIG.4-TYPICAL FORWARD CHARACTERISTICS

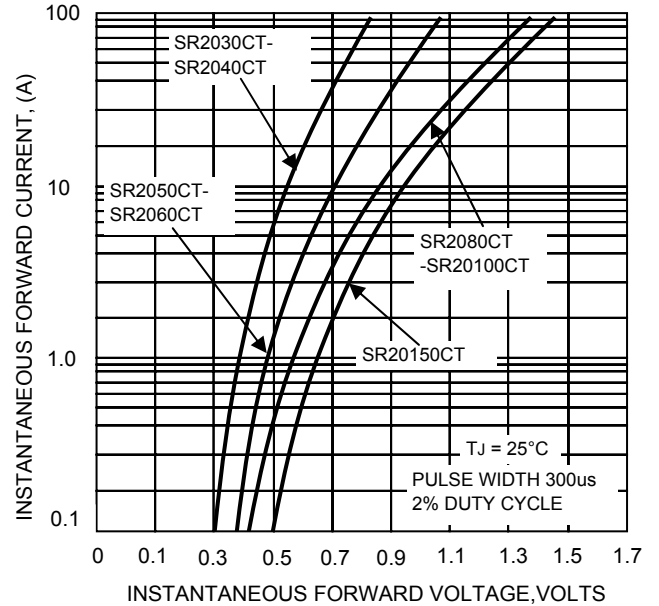
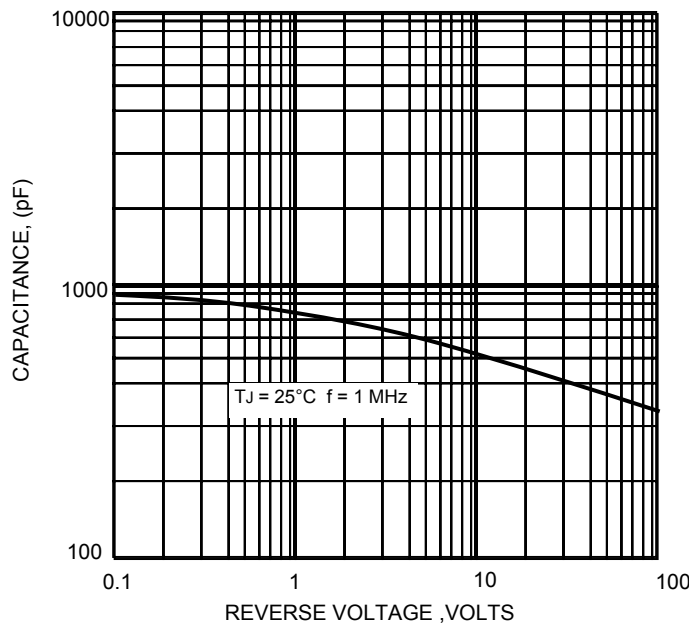


FIG.5 – TYPICAL JUNCTION CAPACITANCE



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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