

# SR1030CT THRU SR10150CT

#### Reverse Voltage - 30 to 150 Volts **Schottky Barrier Recitifiers** Forward Current - 10.0 Amperes Rb **TO-220AB Features** • Low forward voltage drop 189 (4.8) .135 (3.44) .153 (3.9) .173 (4.4) .413 (10.5) High current capabiliity .103 (2.62) RoHS .055 (1.4) .374 (09.5) .047 (1.2) COMPLIAN High surge capability The plastic material carries UL recognition 94V-0 .270 (6.9) 230 (5.8) .610 (15.5) .583 (14.8) **Mechanical Data** •Case: JEDEC TO-220AB molded plastic • Polarity: As marked on the body Mounting position: Any 057 (1.45) 045 (1.14) <u>.177</u> <u>.583 (14.8)</u> (4.5) .531 (13.5) (4.5) Applications .043 (1.10) Max. .030 (0.75) For use in low vlotage, high frequency inverters, polarity .024 (0.6) .102 (2.6) .091 (2.3) protection applications. .012 (0.3) .<u>138</u> Max. (3.5)Package Outline Dimensions in Inches (Millimeters)

### **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	SR	SR	SR	SR	SR	SR	Unit
	Symbol	1030CT	1040CT	1050CT	1060CT	1080CT	10100CT	10150CT	
Maximum Repetitive Peak Reverse Voltage	Vrrm	30	40	50	60	80	100	150	V
Maximum RMS Voltage	Vrms	21	28	35	42	56	70	105	V
Maximum DC Blocking Voltage	VDC	30	40	50	60	80	100	150	V
Maximum Average Forward Rectified Current @Tc=95 $^\circ\!\!\!\!^\circ$	I(AV)	10							А
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	IFSM 120							А
Superimposed on Rated Load ( JEDEC Method )	IFSM		120						
Peak Forward Voltage at 5.0 A DC (Note1)	VF	0.55		0.	70	0.0		0.95	V
Maximum DC Reverse Current @TJ=25℃		IR 1.0 50							mA
at Rated DC Blocking Voltage @T」=100 $^\circ\!\!\!\!^\circ$	IK								
Typical Junction Capacitance (Note2)	CJ	250							pF
Typical Thermal Resistance Junction to Case	Rejc	3.0							°C/W
Junction Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Тѕтс	-55 to +150							°C

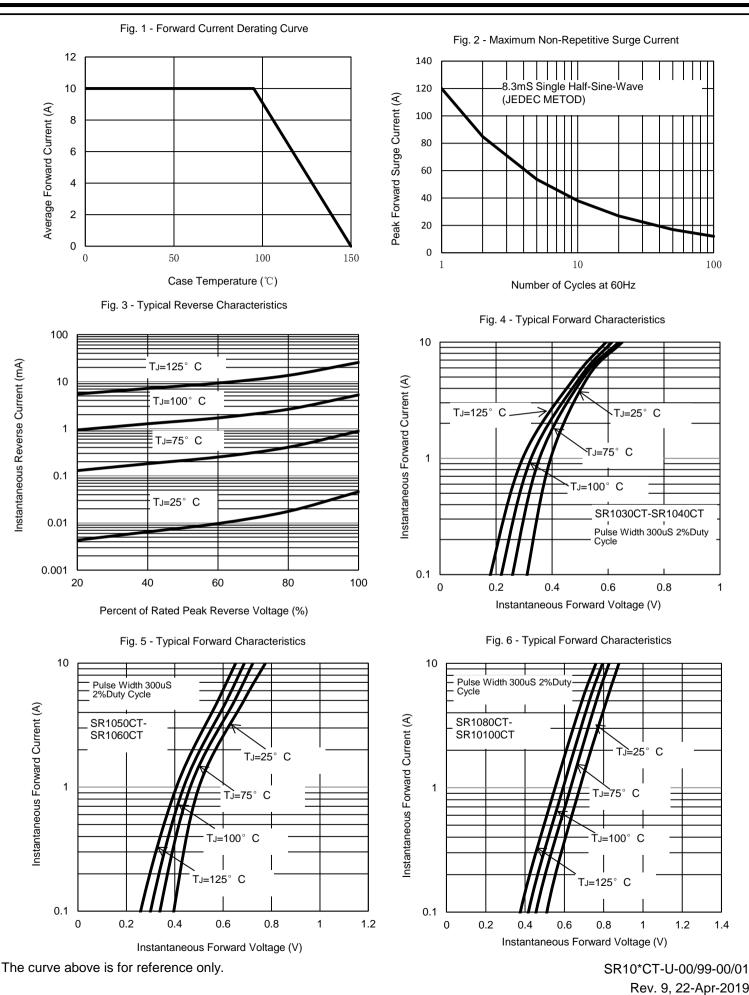
Notes: 1: 300us pulse width,2% duty cycle. 300uS.

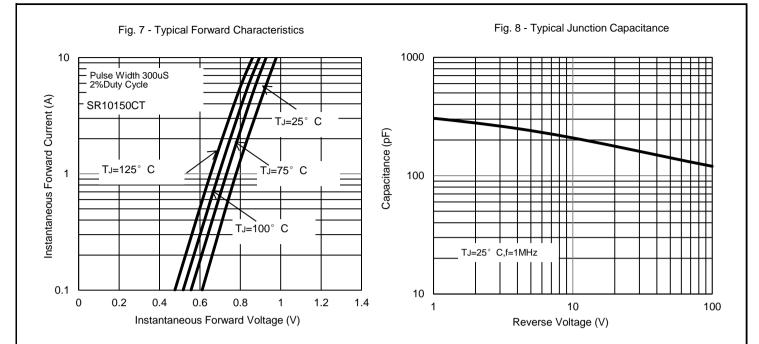
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3. The typical data above is for reference only.

SR10\*CT-U-00/99-00/01 Rev. 9, 22-Apr-2019

## Rating and Characteristic Curves SR1030CT THRU SR10150CT





The curve above is for reference only.





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