

SR1630CT THRU SR16150CT

16

150

1.0

50

350

2.5

-55 to +150

-55 to +150

0.70

0.85

Reverse Voltage - 30 to 150 Volts **Surface Mount Schottky Barrier Recitifiers** Forward Current - 16.0 Amperes Rh Features **TO-220AB** .135 (3.44) .103 (2.62) Low forward voltage drop 173 (4 .055 .153 (3.9) .413 (10.5) High current capabiliity .047 (1.2) RoHS COMPLIAN High surge capability 270 (6.9) 230 (5.8) The plastic material carries UL recognition 94V-0 <u>610 (15.5)</u> 583 (14.8) Mechanical Data •Case: JEDEC TO-220AB molded plastic Polarity: As marked on the body .057 (1.45) .045 (1.14) .<u>583 (14.8)</u> .531 (13.5) .177 Mounting position: Any (4.5) .043 (1.10) Max. .030 (0.75) Applications .024 (0.6) 102 (2.6) .012 (0.3) For use in low vlotage, high frequency inverters, polarity .138 (3.5) Max. protection applications. 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%. SR SR SR SR SR SR SR Characteristics Symbol Unit 1680CT 1630CT 1640CT 1660C 16100CT 16150C 1650CT Maximum Repetitive Peak Reverse Voltage VRRM 30 40 50 60 80 100 150 V V Maximum RMS Voltage 21 42 70 105 VRMS 28 35 56 Maximum DC Blocking Voltage VDC 30 40 50 60 80 100 150 V

I(AV)

IFSM

VF

IR

CJ

Rejc

ТJ

TSTG

0.55

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

Junction Temperature Range

Storage Temperature Range

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

3. The typical data above is for reference only.

Maximum Average Forward Rectified Current @ Tc=95°C

Superimposed on Rated Load (JEDEC Method)

Peak Forward Voltage at 8.0A DC (Note1)

Maximum DC Reverse Current @TJ=25°C

at Rated DC Blocking Voltage @TJ=100°C Typical Junction Capacitance (Note2)

Typical Thermal Resistance Junction to Case

Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,

A

A

V

mΑ

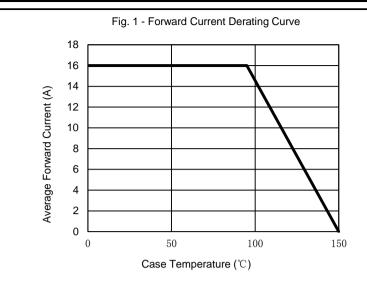
рF

°C/W

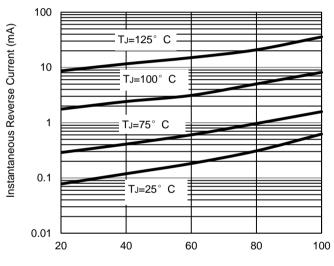
°C

°C

0.95

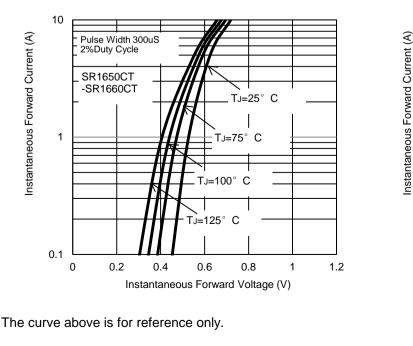


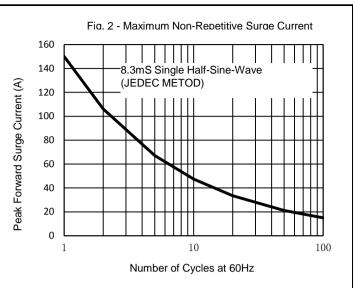


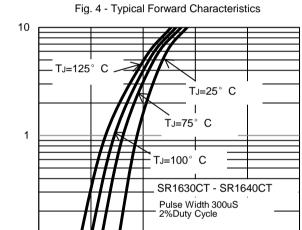


Percent of Rated Peak Reverse Voltage (%)

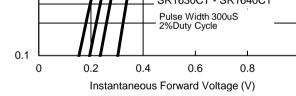




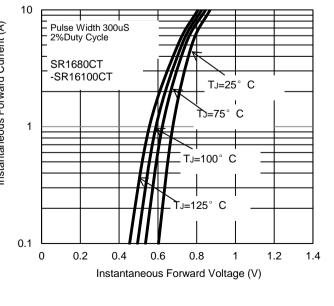




Instantaneous Forward Current (A)

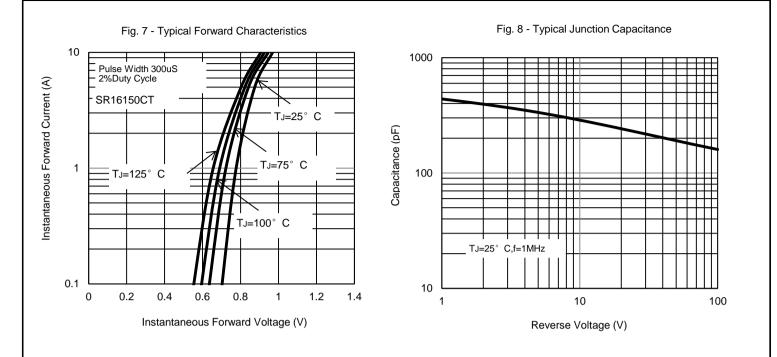






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