SRS1620CT THRU SRS1660CT

SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

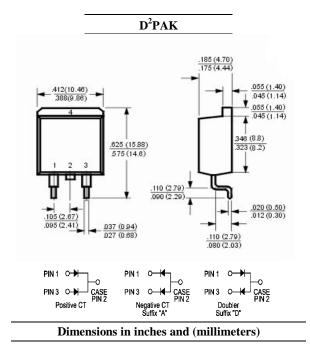
20 to 60 VOLTS 16.0 AMPERE



- \cdot For surface mounted application
- \cdot Metal of silicon rectifier, majority carrier conduction
- \cdot Guard ring for transient protection
- \cdot High capability
- · Low power loss, high efficiency
- \cdot High current capability, low $V_{\rm F}$
- · High surge capacity
- For use in low voltage, high frequency inverters, free whelling, and polarity protection applications

MECHANICAL DATA

Case: Molded plastic, D²PAK Epoxy: UL 94V-O rate flame retardant Terminals: Leads solderable per MIL-STD-202 method 208 guaranteed Polarity: As marked Mounting position: Any Weight: 0.06ounce, 1.70gram



Maximum Ratings and Electrical Characteristics

Ratings at $25\,^\circ$ C ambient temperature unless otherwise specified.

Single phase, half wave, 60H_Z, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	SRS1620CT	SRS1630CT	SRS1640CT	SRS1650CT	SRS1660CT	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current	I _(AV)			16.0			Amp
See Fig. 1	-(AV)	10.0					Апр
Peak Forward Surge Current,							
8.3ms single half-sine-wave	I _{FSM} 200					Amp	
superimposed on rated load (JEDEC method)							
Maximum Forward Voltage	V _F	0.55			0.70		Volts
at 8.0A DC and 25°C	۷F						
Maximum Reverse Current at T _C =25°C	т	0.5					
at Rated DC Blocking Voltage T _C =100°C	I _R		50				mAmp
Typical Junction Capacitance (Note 1)	CJ		700		4	60	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	3.0					℃/W
Operating Temperature Range	T _J		-55 to +125		-55 to	o +150	°C
Storage Temperature Range	Tstg	-55 to +150					Ĉ

NOTES:

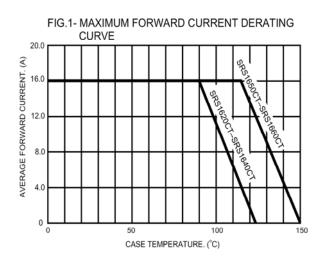
1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance from Junction to Case Per Leg



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RATINGS AND CHARACTERISTIC CURVES



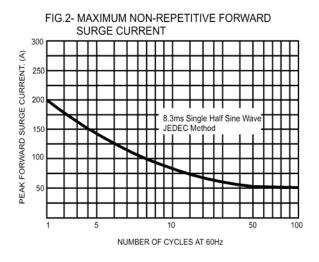


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

