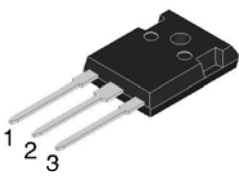
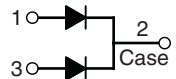


## 16.0 Amp. Schottky Barrier Rectifier

<b>TO-3P</b>     Common Cathode Suffix "C"	<b>Voltage</b> 20 V to 150 V	<b>Current</b> 16.0 A
	<ul style="list-style-type: none"> <li>• Dual rectifier construction, positive center-tap</li> <li>• Plastic package has Underwriters Laboratory Flammability Classifications 94V-0</li> <li>• Metal silicon junction, majority carrier conduction</li> <li>• Low power loss, high efficiency</li> <li>• High current capability, low VF</li> <li>• High surge capability</li> <li>• Epitaxial construction</li> <li>• For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications</li> <li>• Guardring for transient protection</li> <li>• High temperature soldering guaranteed: 260°C/10 seconds, 4.3mm lead lengths at 5 lbs., (2.3kg) tension</li> </ul>	
	<b>Mechanical Data</b> <ul style="list-style-type: none"> <li>• Cases: JEDEC TO-3P/TO-247AD molded plastic</li> <li>• Terminals: Leads solderable per MIL-STD-750, Method 2026</li> <li>• Polarity: As marked</li> <li>• Mounting position: Any</li> <li>• Weight: 5.6 grams</li> </ul>	

### Absolute Maximum Ratings, according to IEC publication No. 134

		SR 1620PT	SR 1640PT	SR 1660PT	SR 16100PT	SR 16150PT
V <sub>RRM</sub>	Maximum Recurrent Peak Reverse Voltage (V)	20	40	60	100	150
V <sub>RMS</sub>	Maximum RMS Voltage (V)	14	28	42	70	105
V <sub>DC</sub>	Maximum DC blocking voltage (V)	20	40	60	100	150
I <sub>F(AV)</sub>	Maximum Average Forward Rectified Current See Fig.	16 A				
I <sub>FSM</sub>	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	200 A				
C <sub>j</sub>	Typical Junction Capacitance at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.	700 pF		400 pF		
T <sub>j</sub>	Operating Junction Temperature Range	- 65 to + 125 °C			- 65 to + 150 °C	
T <sub>stg</sub>	Storage Temperature Range	- 65 to +150 °C				

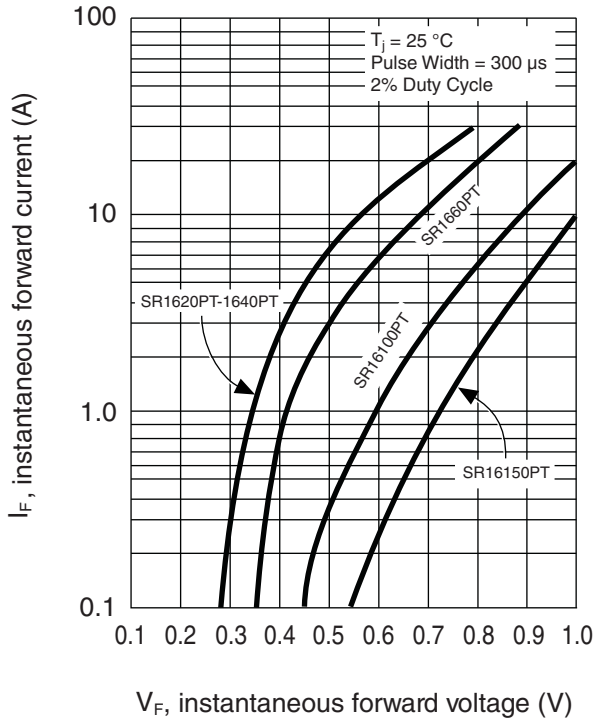
### Electrical Characteristics

		SR 1620PT	SR 1640PT	SR 1660PT	SR 16100PT	SR 16150PT
V <sub>F</sub>	Maximum Instantaneous Forward Voltage @ 8.0A (Note 2)	0.55 V		0.70 V	0.90 V	1.0 V
I <sub>R</sub>	Maximum D.C. Reverse Current @ T <sub>C</sub> =25 °C at Rated DC Blocking Voltage @ T <sub>C</sub> =100 °C	0.5 mA			0.1 mA	
		15 mA		10 mA	5 mA	
R <sub>thj-c</sub>	Typical Thermal Resistance Per Leg (Note 1)	3.0 °C/W				

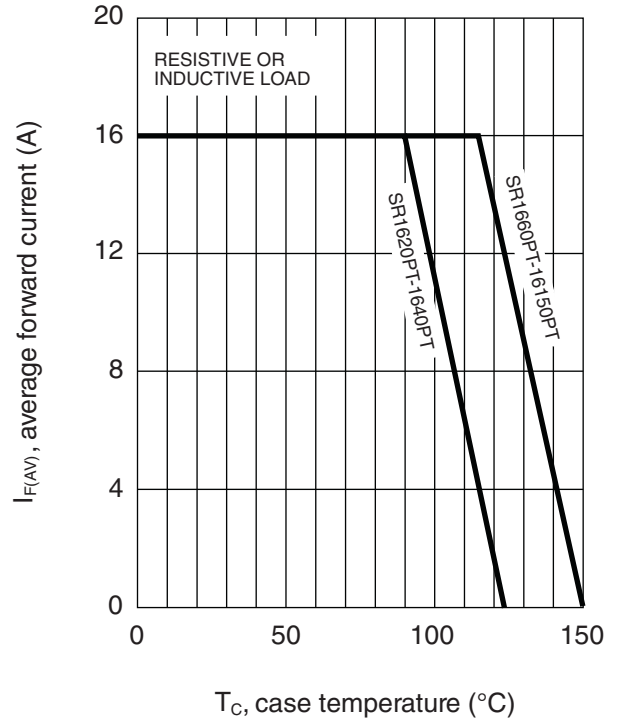
Notes: 1. Thermal Resistance from junction to Case Per Leg, With Heatsink Size of 50.4 mm x 76.2 mm x 6.35 mm Al-Plate.  
 2. 300µs Pulse Width, 2% Duty Cycle

### Rating And Characteristic Curves

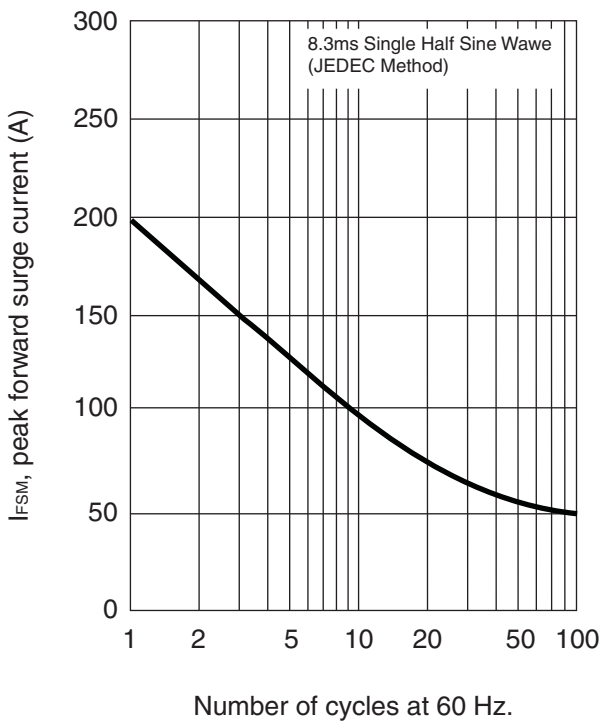
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG



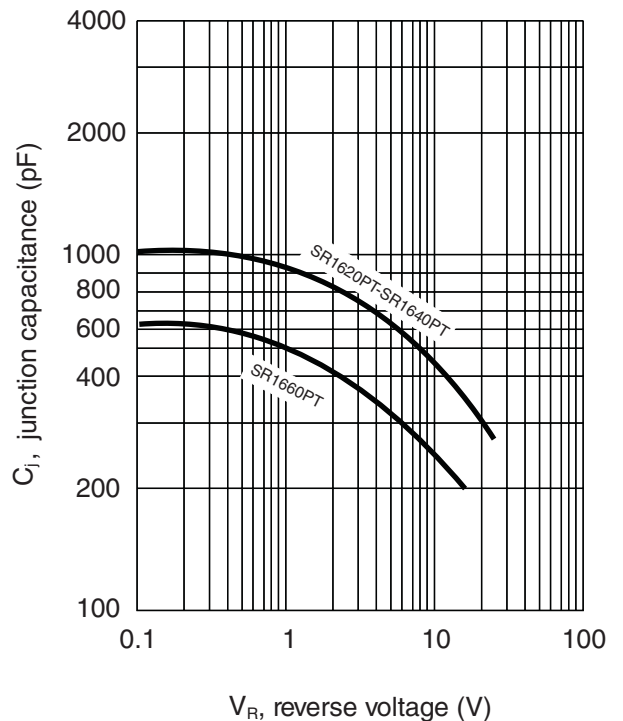
MAXIMUM FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

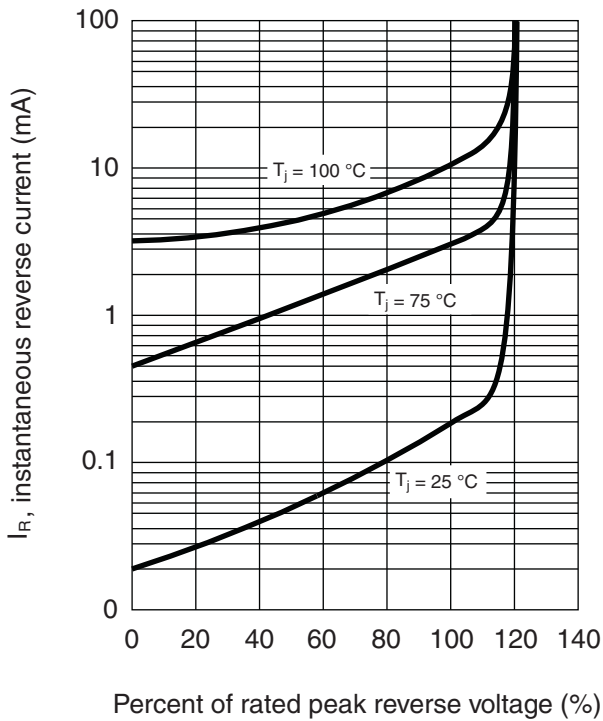


TYPICAL JUNCTION CAPACITANCE PER LEG

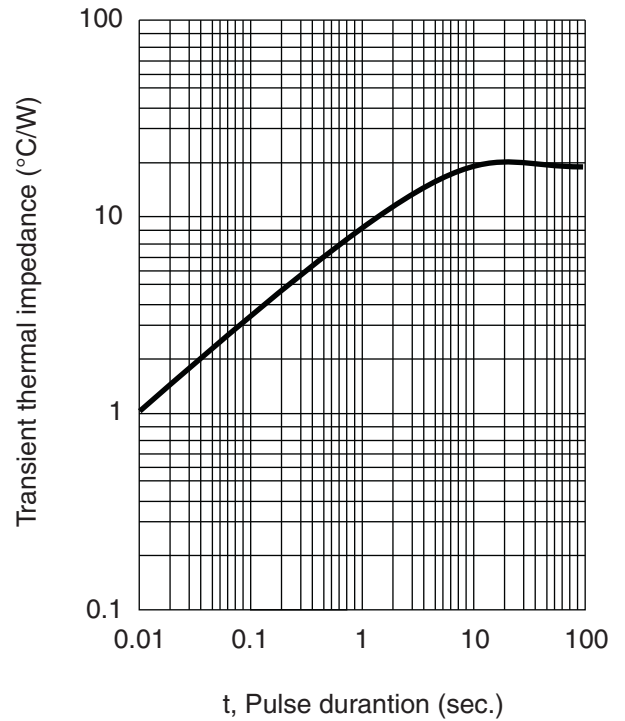


### Rating And Characteristic Curves

TYPICAL REVERSE CHARACTERISTICS PER LEG

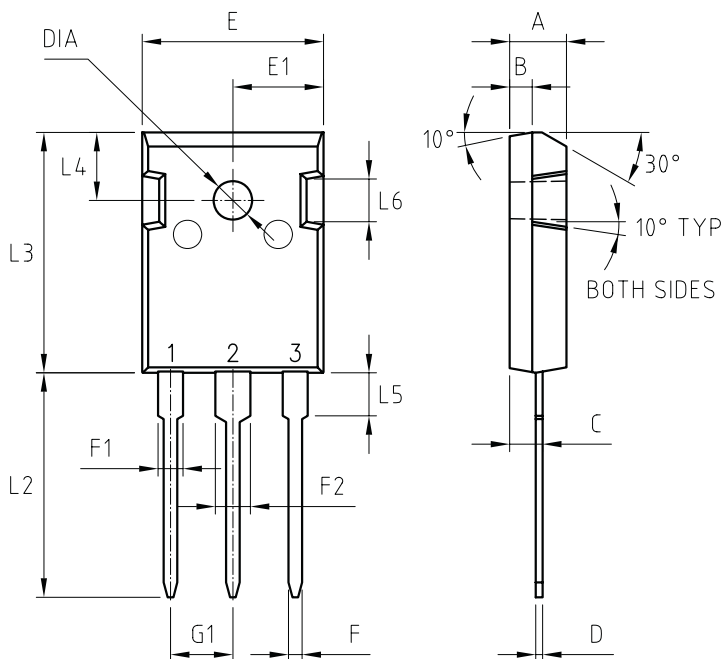


TYPICAL TRANSIENT THERMAL CHARACTERISTICS



### PACKAGE MECHANICAL DATA

### TO-3P



REF.	DIMENSIONS		
	Millimeters		
	Min.	Nominal	Max.
A	4.90		5.16
B		1.98	
C	2.7		3.0
D	0.51		0.76
E	15.9		16.4
E1	7.9		8.2
F	1.12		1.22
F1	1.93		2.18
F2	2.97		3.22
G1	5.2		5.7
L2	19.7		20.2
L3	20.8		21.3
L4	5.7		6.2
L5	3.5		4.1
L6		4.3	
DIA	2.9		3.4