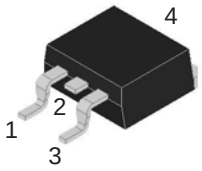
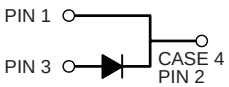
8.0 Amp. Surface Mount Schottky Barrier Rectifiers

D^2PAK





Voltage	Current
90 to 100 V	8.0 A

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data

- Cases: D^2PAK molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: As marked
- High temperature soldering guaranteed: 260 °C/10 seconds/6.35mm from case
- Weight: 2.24 grams

Absolute Maximum Ratings, according to IEC publication No. 134

		SRAS890	SRAS8100
V_{RRM}	Maximum Recurrent Peak reverse voltage (V)	90	100
V_{RMS}	Maximum RMS Voltage (V)	63	70
V_{DC}	Maximum DC Blocking Voltage (V)	90	100
$I_{F\ (AV)}$	Maximum Average Forward Rectified Current See Fig.	8.0 A	
I_{FSM}	Peak Forward Surge Current 8.3 ms. Single Half Sine-wave Superimposed on Rated Load (Jedec Method)	150 A	
C_j	Typical Junction Capacitance (1MHz; -4V)	165 pF	
T_j	Operating Junction Temperature Range	– 65 to + 150 °C	
T_{stg}	Storage Temperature Range	– 65 to + 175 °C	

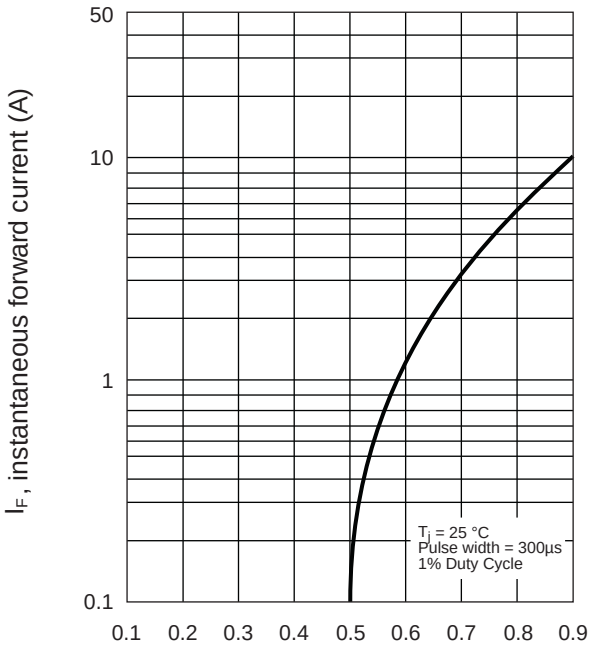
Electrical Characteristics

		SRAS890	SRAS8100
V_F	Maximum Instantaneous Forward Voltage @ 8.0A	0.95 V	
I_R	Maximum D.C. Reverse Current @ T_C = 25 °C at Rated DC Blocking Voltage	0.1 mA	
R_{thj-C}	Typical Thermal Resistance (Note 1)	3.0 °C/W	

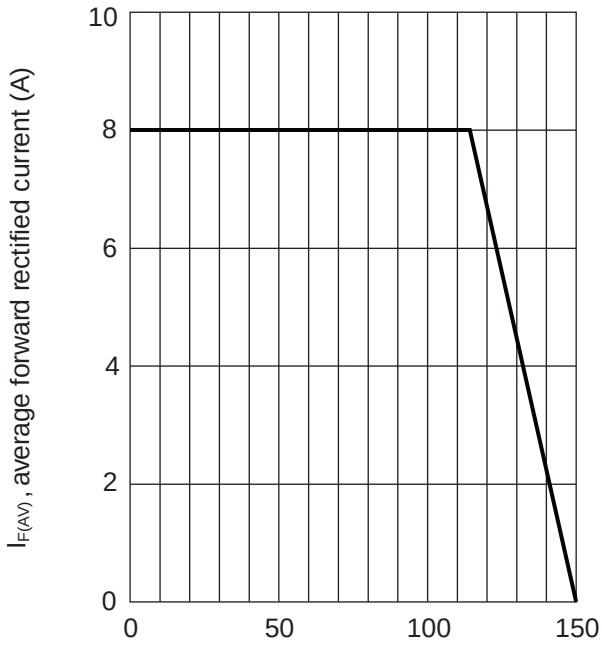
Notes: 1. Thermal Resistance from Junction to Case Per Leg

Rating And Characteristic Curves

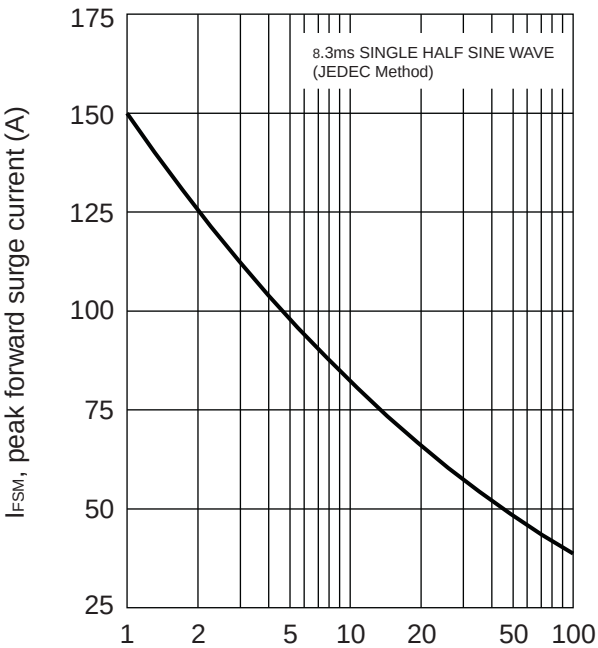
TYPICAL FORWARD CHARACTERISTICS



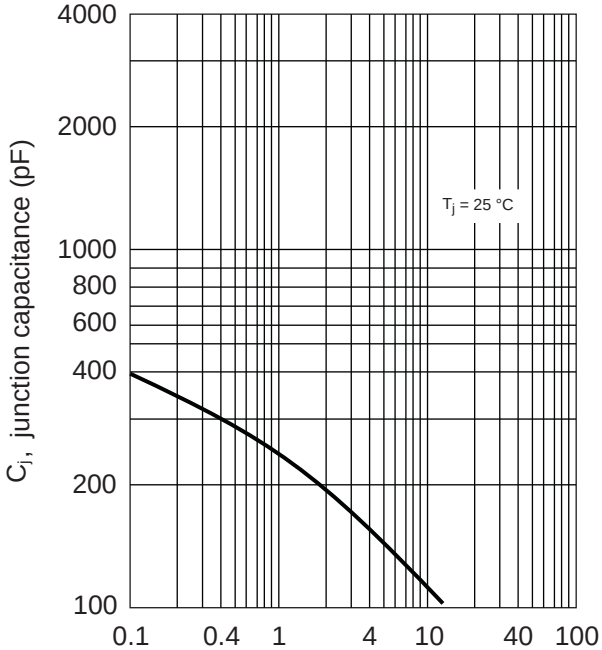
MAXIMUM FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

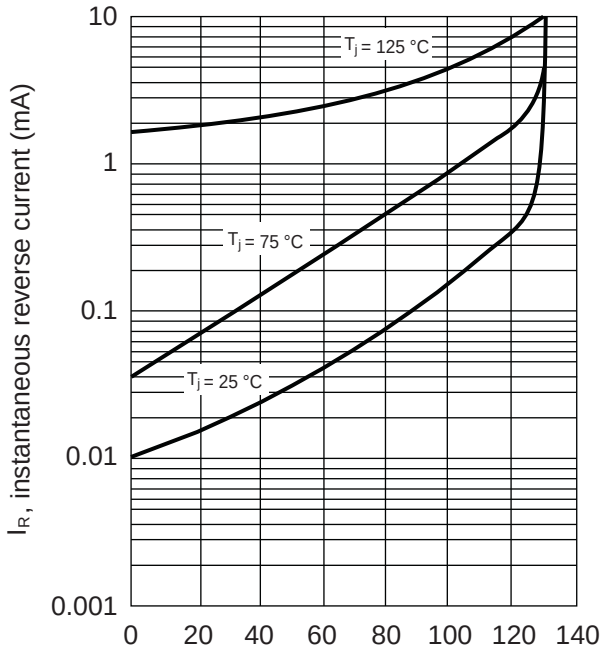


TYPICAL JUNCTION CAPACITANCE

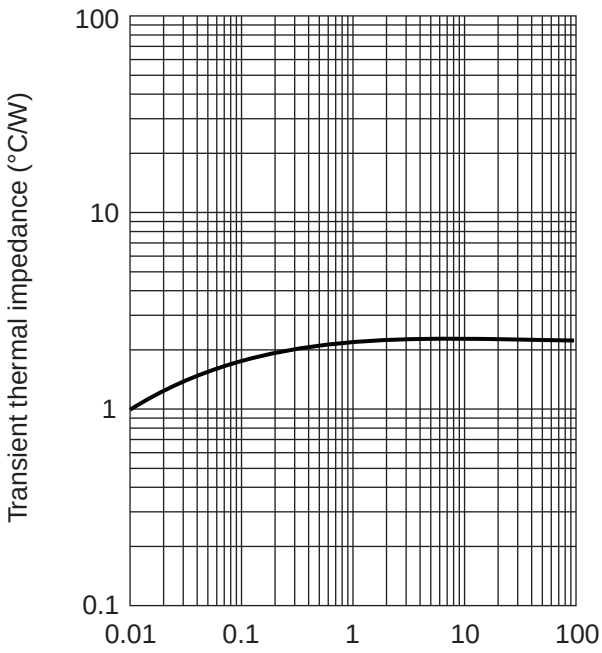


Rating And Characteristic Curves

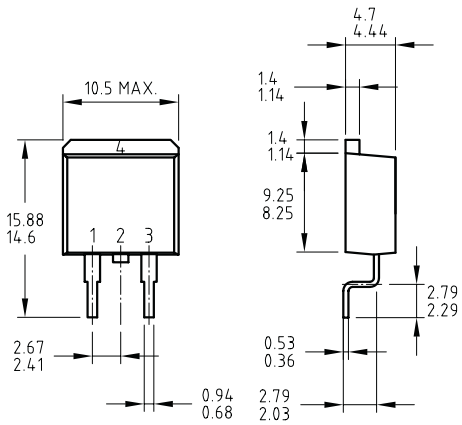
TYPICAL REVERSE CHARACTERISTICS



TYPICAL TRANSIENT THERMAL CHARACTERISTICS



PACKAGE MECHANICAL DATA D^2 PAK



Dimensions in mm.