



SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 50 Volts CURRENT 30 Amperes

FEATURES

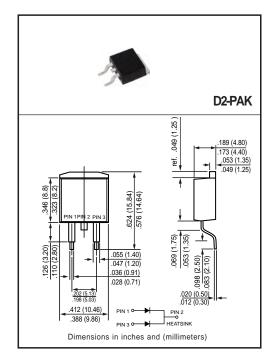
- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: D2-PAK molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 3.61 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	SR3050CS	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	Volts
Maximum RMS Voltage	V _{RMS}	35	Volts
Maximum DC Blocking Voltage	V _{DC}	50	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	Io	30	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300	Amps
Typical Thermal Resistance (Note 1)	R _{θJC}	1.5	°C/W
	R _{0JA}	30	
Operating Temperature Range	TJ	175(Tj≤200°C in By pass Mode)	۰C
Storage Temperature Range	T _{STG}	-55 to + 175	۰C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

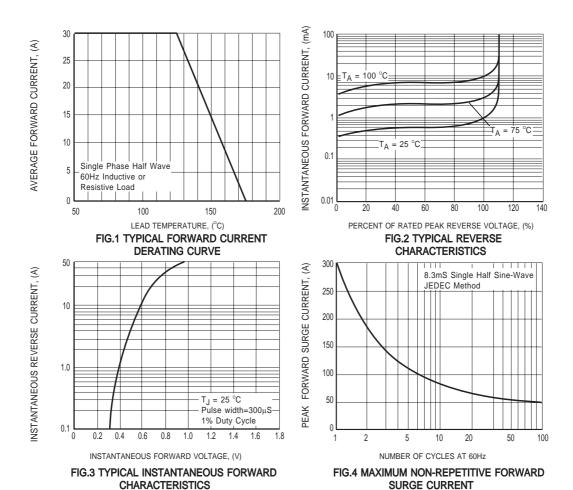
CHARACTERISTICS		SYMBOL	SR3050CS	UNITS
Maximum Instantaneous Forward Voltage at 15.0A DC		V _F	.65	Volts
Maximum Average Reverse Current	@T _A = 25°C	1-	1.0	mA
at Rated DC Blocking Voltage	@T _A = 100°C	IR	10	mA

NOTES: 1. Thermal Resistance: Heat-sink mounted.

- Suffix "A" = Common Anode.
 "Fully ROHS compliant", "100% Sn plating (Pb-free)".
 Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2010-04 REV:O

RATING AND CHARACTERISTICS CURVES (SR3050CS)



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