



SCHOTTKY BARRIER RECTIFIER

VOLTAGE 90 Volts CURRENT 12.5 Amperes

FEATURES

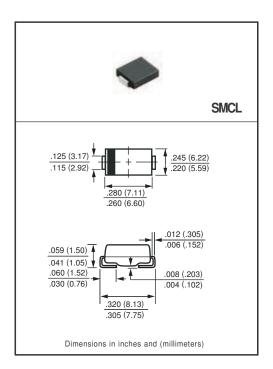
- * High reliability
- * Low switching loss
- * Low forward voltage drop
- * High current capability
- * High switching capability

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Case: Molded plastic
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting: position: Any * Weight: 0.24 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	SPKC1390	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	90	Volts
Maximum RMS Voltage	V _{RMS}	63	Volts
Maximum DC Blocking Voltage	V _{DC}	90	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	Io	12.5	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150	Amps
Typical Thermal Resistance (Note 1)	R _{θJC}	2.0	°C/W
	R _{θJA}	60	
Typical Junction Capacitance (Note 2)	CJ	700	pF
Operating Temperature Range	TJ	175(Tj≤200°C in By pass Mode)	٥C
Storage Temperature Range	T _{STG}	-55 to + 175	°C

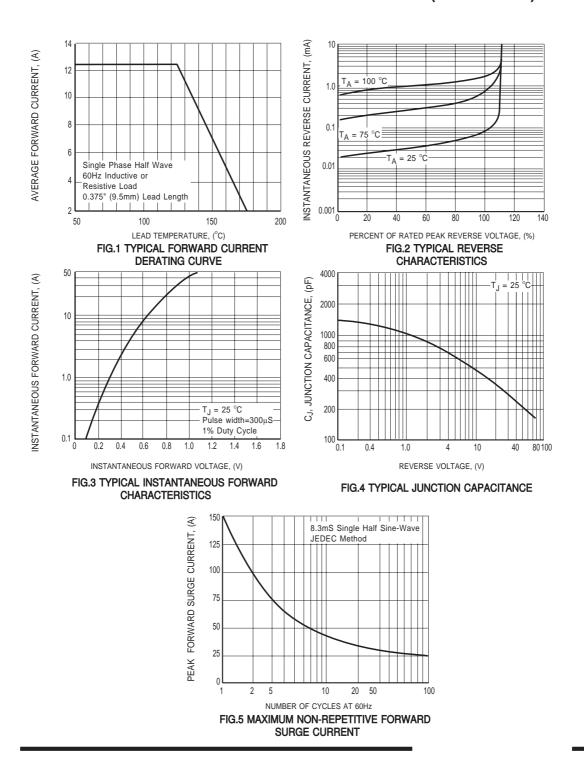
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

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CHARACTERISTICS		SYMBOL	SPKC1390	UNITS			
Maximum Instantaneous Forward Voltage at 12.5A DC		VF	.65	Volts			
Maximum Average Reverse Current	@T _A = 25°C	1-	0.1	mA			
at Rated DC Blocking Voltage	@T _Δ = 100°C	'R	2	m A			

NOTES: 1. Thermal Resistance: Heat-sink case mounted or if PCB mounted.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
4. Suffix "R" for Reverse Polarity.
5. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2010-05

RATING AND CHARACTERISTICS CURVES (SPKC1390)



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