



SCHOTTKY BARRIER SOLAR RECTIFIER

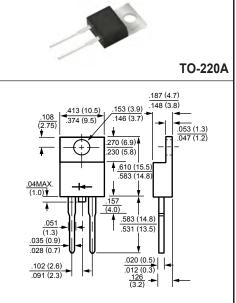
VOLTAGE 45 Volts CURRENT 18 Amperes

FEATURES

- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High surge capabitity
- * High reliability
- * ideal for solar panel PV application such as By-Pass diode

MECHANICAL DATA

- * Case: R-6 axial-leaded, molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 1.883 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

Dimensions in inches and (millimeters)

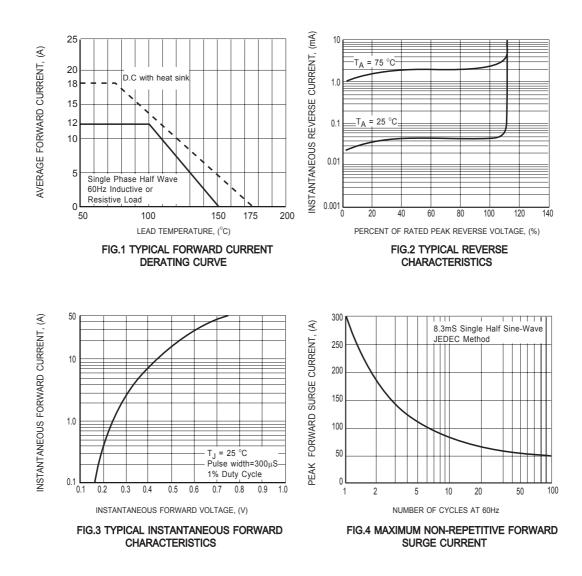
RATINGS	SYMBOL	SPKT1845	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	45	Volts
Maximum RMS Voltage	V _{RMS}	31.5	Volts
Maximum DC Blocking Voltage	V _{DC}	45	Volts
Maximum DC Forward Current @T∟=75°C(Note 1)	lo	18	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300	Amps
Typical Thermal Resistance	R _{0JA}	35	°C/W
	Røjl	3.3	-0/w
Operating Temperature Range	TJ	175	٥C
Storage Temperature Range	T _{STG}	-55 to + 175	٥C

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

CHARACTERISTICS		SYMBOL	SPKT1845	UNITS
Maximum Instantaneous Forward Voltage at 18 A DC	@T _A = 25°C	V _F	.52	Volts
	@T _A = 75°C		.47	
Maximum Average Reverse Current	@T _A = 25°C	I _R	100	uA
at Rated DC Blocking Voltage	@T _A = 75°C		2.5	mA
NOTES : 1. Heat-sink mounted 10mm max from body				2009-04

ES: 1. Heat-sink mounted 10mm max from body
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2009-04 REV: 0



RATING AND CHARACTERISTICS CURVES (SPKT1845)



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