





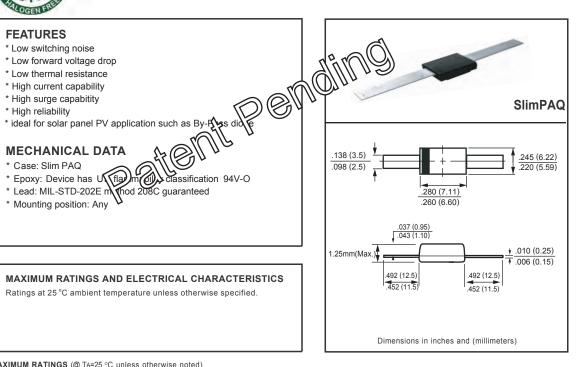
SCHOTTKY BARRIER SOLAR RECTIFIER

VOLTAGE 45 Volts CURRENT 16 Amperes

FEATURES

- * Low switching noise

- m classification 94V-O * Epoxy: Device has U fla
- * Lead: MIL-STD-202E m thod 208C guaranteed
- * Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

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

RATINGS	SYMBOL	SPKC1645F	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 @TL=125°C(Note 1)	lo	16	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300	Amps
Typical Current Square Time	I ² T	373.3	A ² S
Typical Thermal Resistance	R _{θJA}	6.3	
	R _{θJC}	3.1	°C/W
	RθJL	1.6	
Operating Temperature Range	TJ	175(Tj<200C in Bypass Mode)	°C
Storage Temperature Range	T _{STG}	-55 to + 175	°C

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

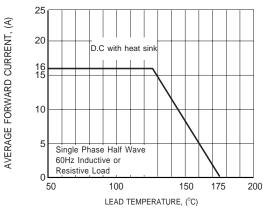
CHARACTERISTICS		SYMBOL	SPKC1645F	UNITS
Maximum Instantaneous Forward Voltage at 16 A DC	@T _A = 25°C	V _F	.54	Volts
	@T _A = 75°C		.47	
Maximum Average Reverse Current	@T _A = 25°C	I _R	100	uA
at Rated DC Blocking Voltage	@T _A = 75°C		2.5	mΑ

NOTES: 1. Heat-sink mounted 10mm max from body

- 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
- 3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2010-05

RATING AND CHARACTERISTICS CURVES (SPKC1645F)



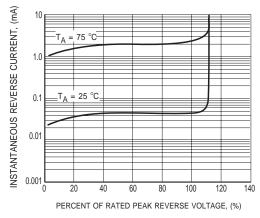
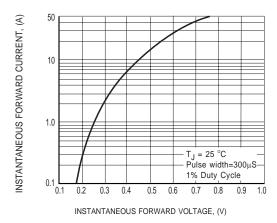


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

FIG.2 TYPICAL REVERSE CHARACTERISTICS



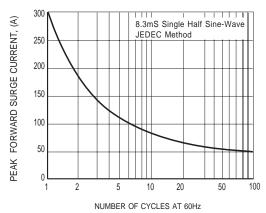


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

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