





SCHOTTKY BARRIER SOLAR RECTIFIER

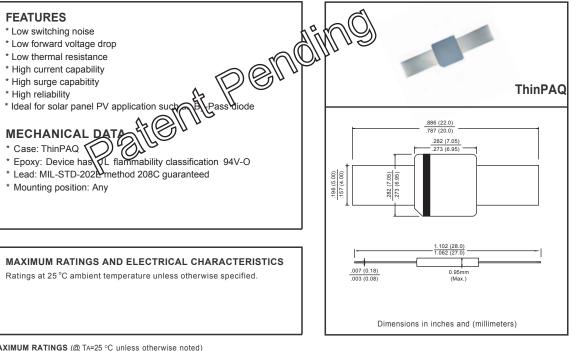
VOLTAGE 45 Volts CURRENT 16 Amperes

FEATURES

- * Case: ThinPAQ

 * Epoxy: Device has L flammability classification 94V-O

 * Lead: MIL-STD-202L method 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	SPKC1645FL	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
Operating Temperature Range	TJ	175(Tj≤200C in Bypass Mode)	۰c
Storage Temperature Range	T _{STG}	-55 to + 175	٥C

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

CHARACTERISTICS		SYMBOL	SPKC1645FL	UNITS		
Maximum Instantaneous Forward Voltage at 16 A DC	@T _A = 25°C	V _F	.55	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

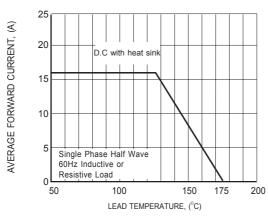
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2011-07 REV: O

Downloaded from: http://www.datasheetcatalog.com/

RATING AND CHARACTERISTICS CURVES (SPKC1645FL)



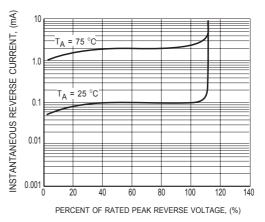


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

FIG.2 TYPICAL REVERSE CHARACTERISTICS

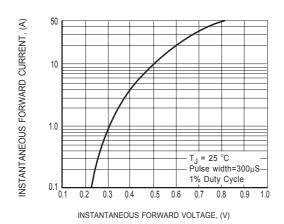


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

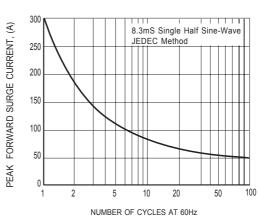
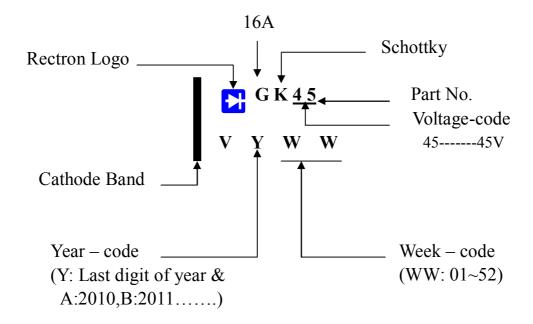
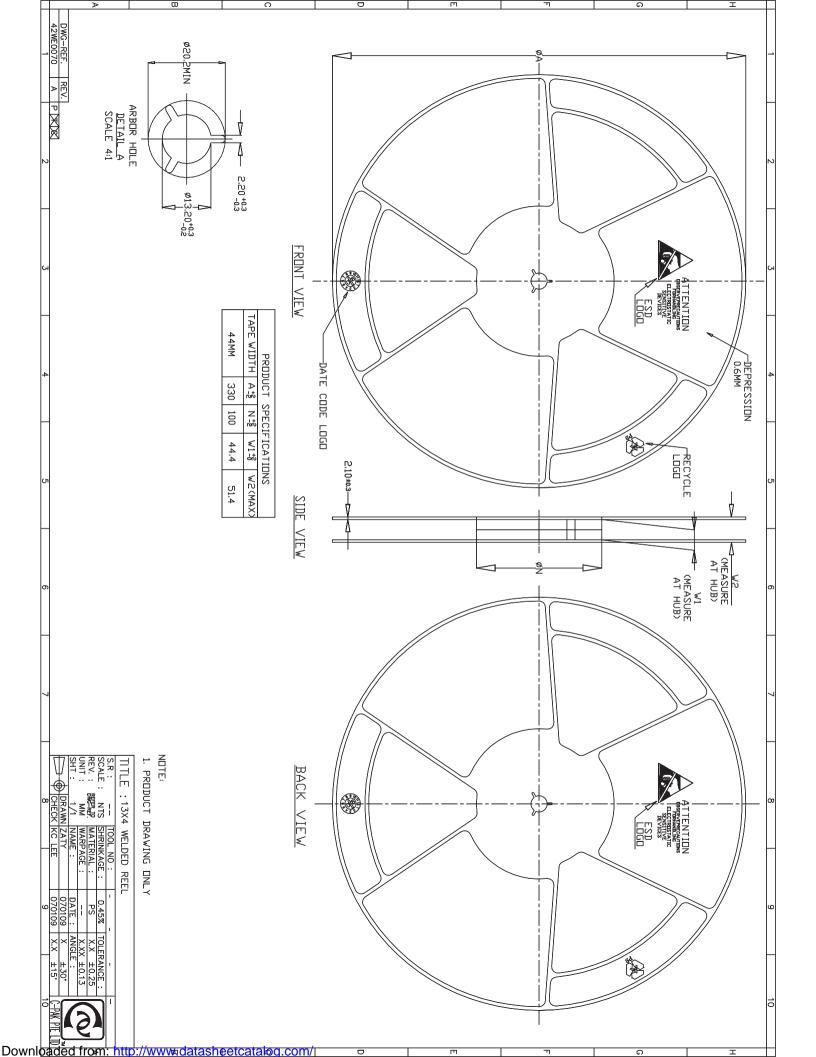


FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



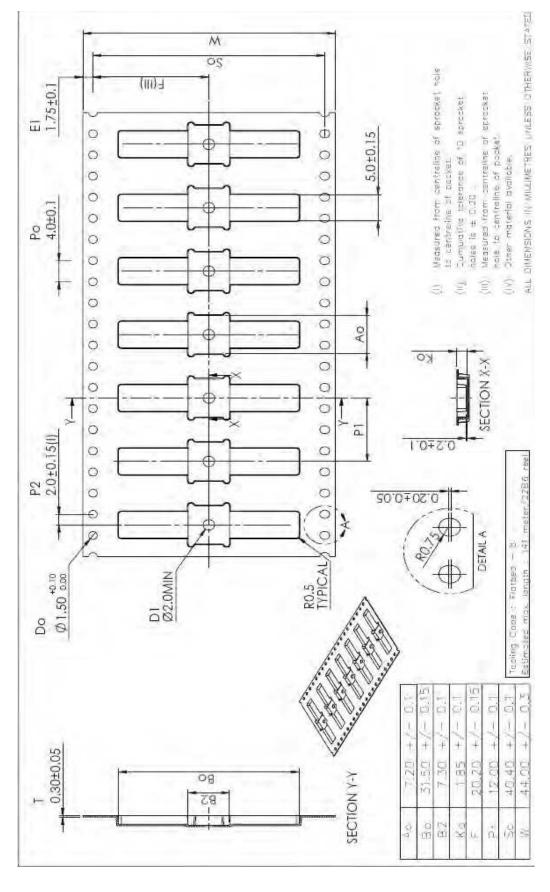
Marking Description





REEL TAPING SPECIFICATIONS

Jnit: mm



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