





SCHOTTKY BARRIER SOLAR RECTIFIER

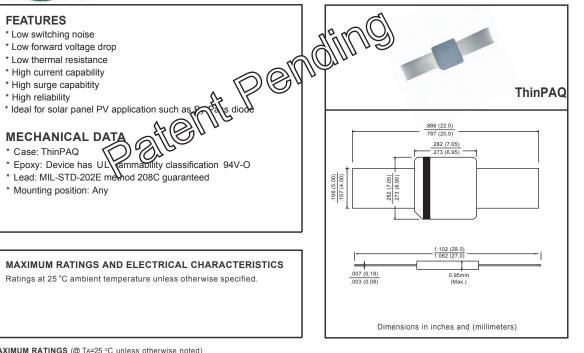
VOLTAGE 45 Volts CURRENT 12 Amperes

FEATURES

- * Case: ThinPAQ

 * Epoxy: Device has UL ammability classification 94V-O

 * Lead: MIL-STD-202E 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	SPKC1245FL	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	12	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	°C

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

CHARACTERISTICS		SYMBOL	SPKC1245FL	UNITS			
Maximum Instantaneous Forward Voltage at 12 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			

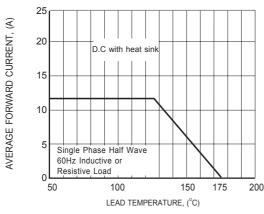
NOTES: 1. Heat-sink mounted 10mm max from body

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

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

2011-06 REV: O

RATING AND CHARACTERISTICS CURVES (SPKC1245FL)



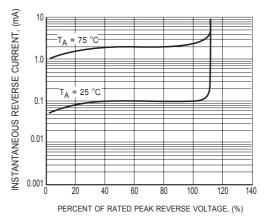
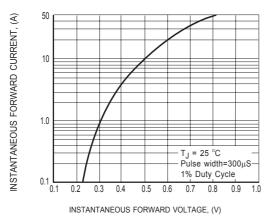


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

FIG.2 TYPICAL REVERSE CHARACTERISTICS



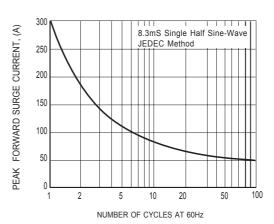
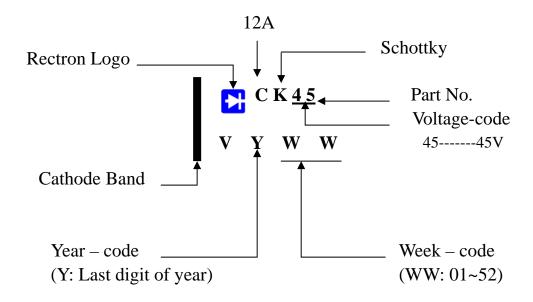
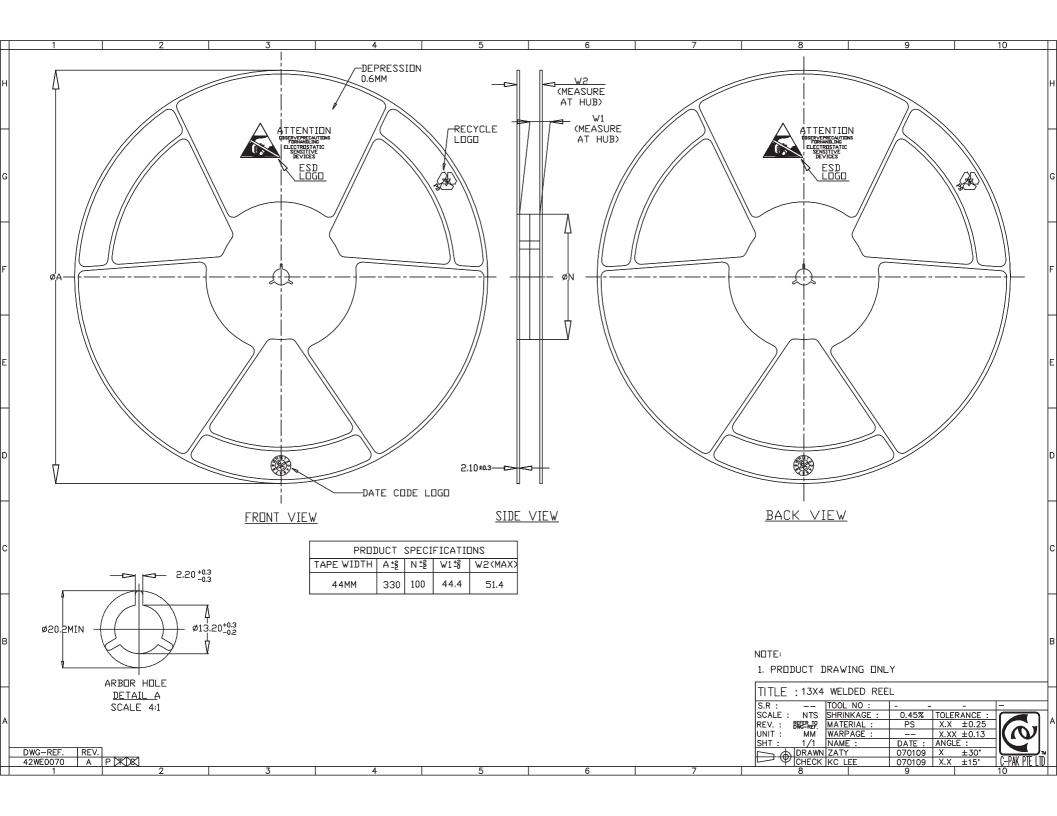


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

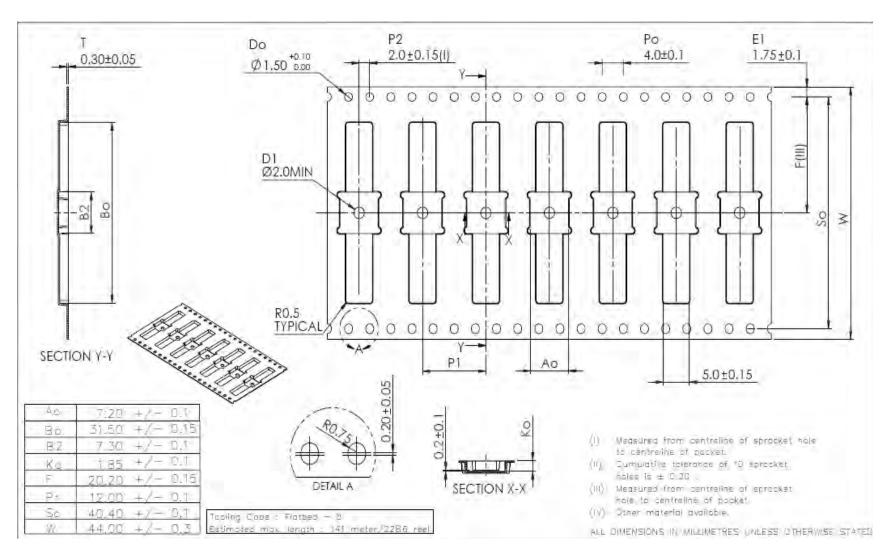
Marking Description





REEL TAPING SPECIFICATIONS

Unit: mm



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