Elektronische Bauelemente

SPK1645

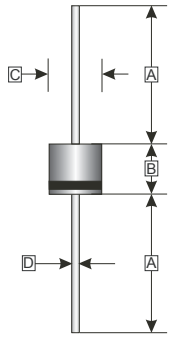
Voltage 45V
16Amp General Purpose Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Guard ring for overvoltage protection.
- Very small conduction losses.
- Low forward voltage drop.

R - 6



REF.	Millimeter	
	Min.	Max.
A	25.4 REF	
B	8.6	9.1
C	8.6	9.1
D	1.2	1.3

MECHANICAL DATA

- Case Material：Molded Plastic. UL Flammability Classification Rating 94V-O
- Terminals：Lead free Plating (Tin Finish) Solderable per MIL-STD-202, Method 208
- Polarity：Cathode Band
- Weight：1.986 grams (approximate)

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise specified)

Parameter		Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	45	V
Maximum RMS Voltage		V_{RMS}	31.5	V
Maximum DC Blocking Voltage		V_{DC}	45	V
Maximum Average Forward Rectified Current		$I_{(AV)}$	16	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	200	A
Maximum Instantaneous Forward Voltage I_F=16A @ 25°C		V_F	0.56	V
Maximum DC Reverse Current at rated DC blocking voltage	T_C=25°C	I_R	0.5	mA
	T_C=100°C		25	
Typical Junction Capacitance[1]		C_J	900	pF
Typical Thermal Resistance		$R_{\theta JA}$	12	°C / W
Operating Temperature Range		T_J	-55 ~ 150	°C
Storage Temperature Range		T_{STG}	-55 ~ 175	°C

Notes:
1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

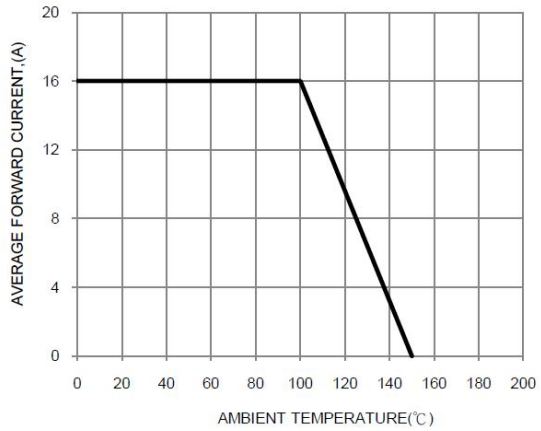

FIG. 2-TYPICAL FORWARD CHARACTERISTICS

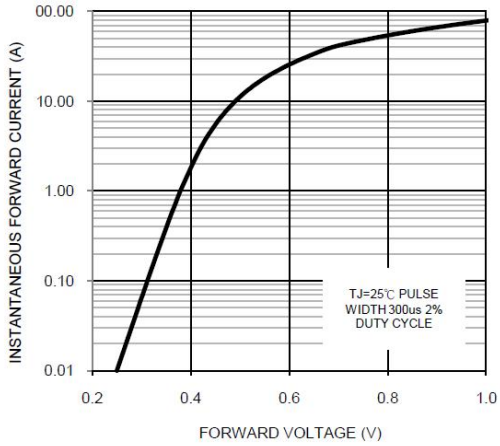

FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

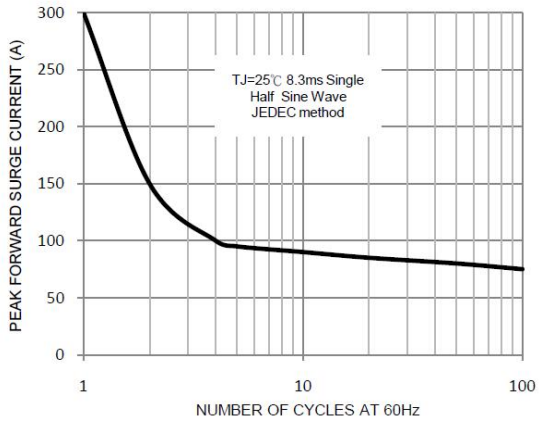

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

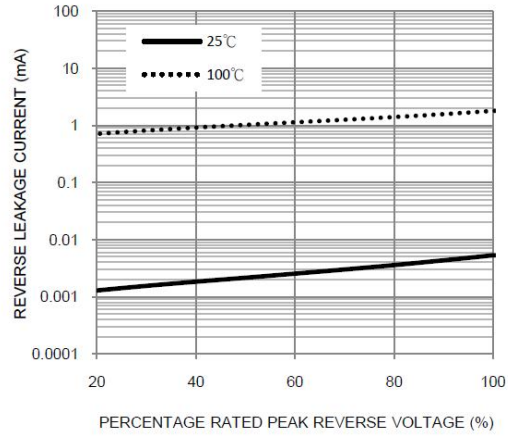

FIG. 5-TYPICAL JUNCTION CAPACITANCE