



ELECTRICAL CHARACTERISTICS (T <sub>A</sub> = 25 °C unless otherwise noted)				
PARAMETER	TEST CONDITIONS	SYMBOL	SK1C0A	UNIT
Maximum instantaneous forward voltage	I <sub>F</sub> =0.5A	V <sub>F</sub>	0.8	V
	I <sub>F</sub> =1 A		0.85	
Maximum DC reverse current at rated DC blocking voltage	T <sub>A</sub> =25	I <sub>R</sub>	100	uA
	T <sub>A</sub> =125		500	
Typical junction capacitance	4.0 V, 1 MHz	C <sub>J</sub>	35	pF

THERMAL CHARACTERISTICS (T <sub>A</sub> = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	SK1C0A	UNIT
Typical thermal resistance	R <sub>θJA</sub> (1)	80	°C/W
	R <sub>θJT</sub> (2)	20	

Notes: (1) Thermal resistance from junction to ambient, 0.197 × 0.197" ( 5.0 × 5.0mm ) copper pads to each terminal  
 (2) Thermal resistance from junction to terminal, 0.197 × 0.197" ( 5.0 × 5.0mm ) copper pads to each terminal

### RATINGS AND CHARACTERISTICS CURVES (T<sub>A</sub> = 25 °C unless otherwise noted)

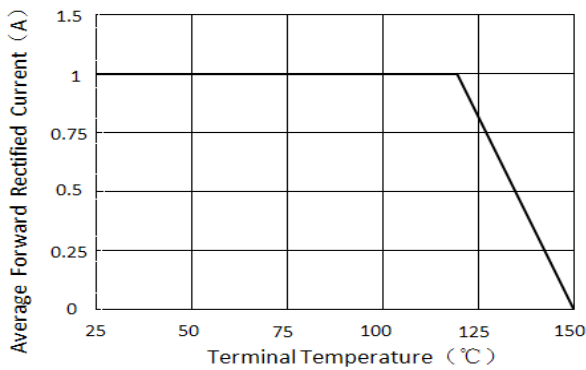


Figure 1. Forward Current Derating Curve

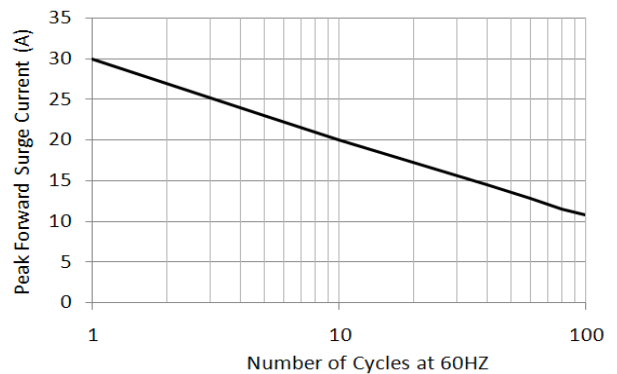


Figure 2. Maximum Non-repetitive Peak Forward Surge Current

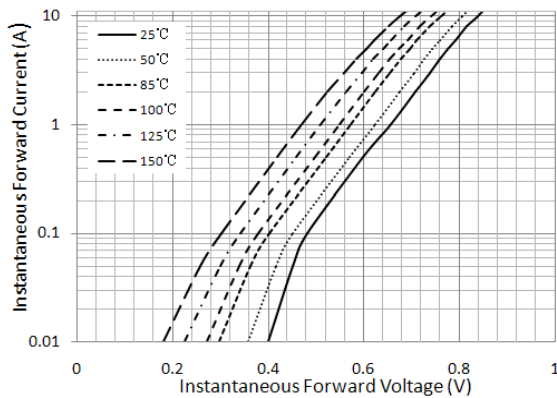


Figure 3. Typical Instantaneous Forward Characteristics

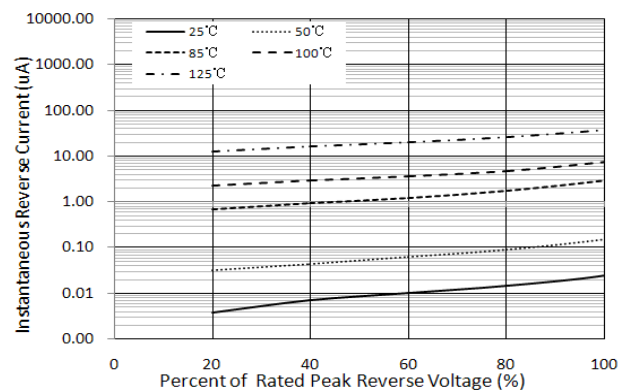


Figure 4. Typical Reverse Characteristics

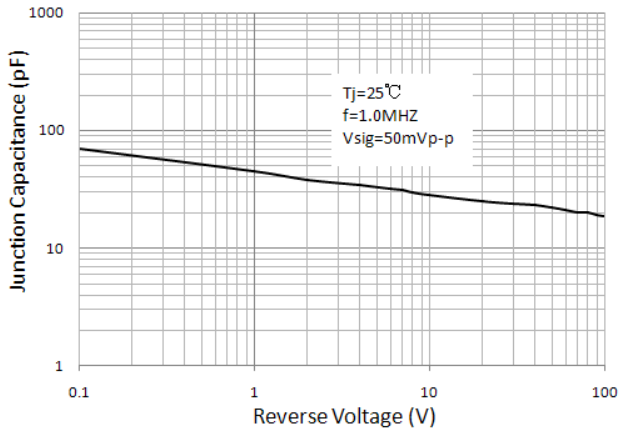


Figure 5. Typical Junction Capacitance

### PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

