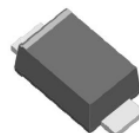




2A Surface Mount Schottky Rectifiers

FEATURES :

- Metal silicon junction, majority carrier conduction.
- For surface mounted applications.
- Low power loss, highefficiency.
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.



SOD-123FL

MECHANICAL DATA :

- Case : SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Band denotes cathode
- Mounting position: Any



MAXIMUM RATINGS (Ratings at 25 °C ambient temperature unless otherwise specified. Single, half wave, 60Hzm resistive or inductive load. For capacitive load, derate current by 20%)

Characteristic	Symbol	K22	K24	K26	K28	K210	K215	K220	Unit
Repetitive Peak Reverse Voltage Maximum DC Blocking Voltage	V_{RRM} V_{DC}	20	40	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	28	42	56	70	105	140	V
Maximum Average Forward Rectified Current	$I_{(AV)}$	2.0							A
Peak Forward surge current 8.3ms single half-sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	50							A
Peak Forward Voltage at 2.0A	V_F	0.55	0.70		0.85		0.95		V
Maximum Reverse Current at TA= 25°C at Rated DC	I_R	0.5							mA
Blocking Voltage at TA= 100°C		10							mA
Typical Junction Capacitance	C_J	250				190			pF
Typical Thermal Resistance	$R_{\theta JA}$	88							°C/W
Storage Temperature	T_{STG}	-55 to +150							°C
Junction Temperature	T_J	-55 to +150							°C

NOTE :

- 1.Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2.P.C.B. mounted with 0.2x0.2"(5x5 mm) copper pad areas.

RATINGS AND CHARACTERISTICS CURVES

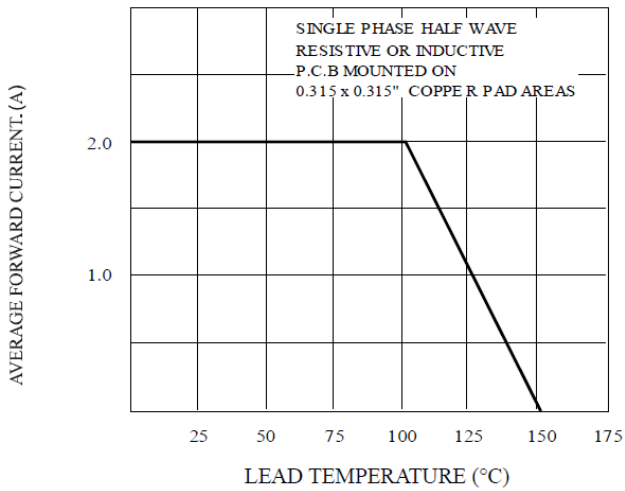


Figure 1. MAXIMUM FORWARD CURRENT DERATING CURVE

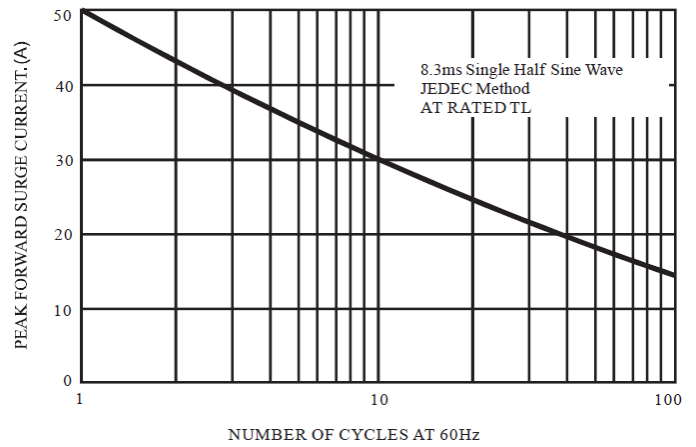


Figure 2. MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

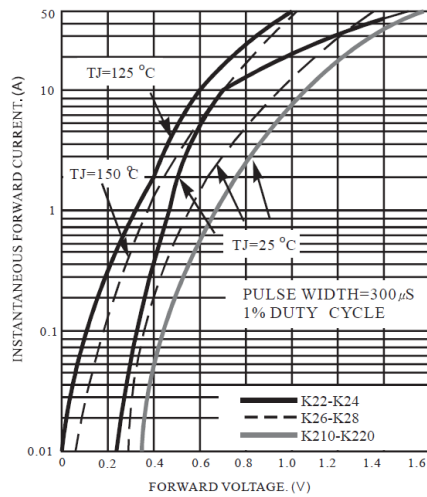


Figure 3. TYPICAL FORWARD CHARACTERISTICS

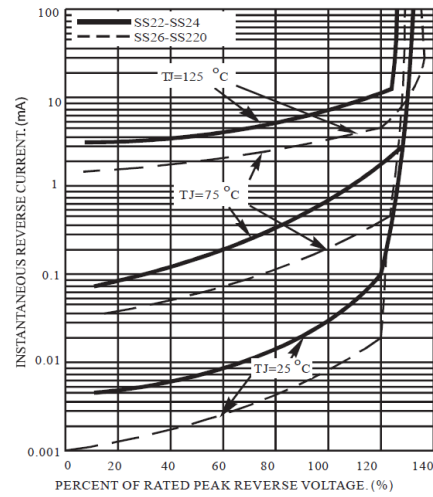


Figure 4. TYPICAL REVERSE CHARACTERISTICS

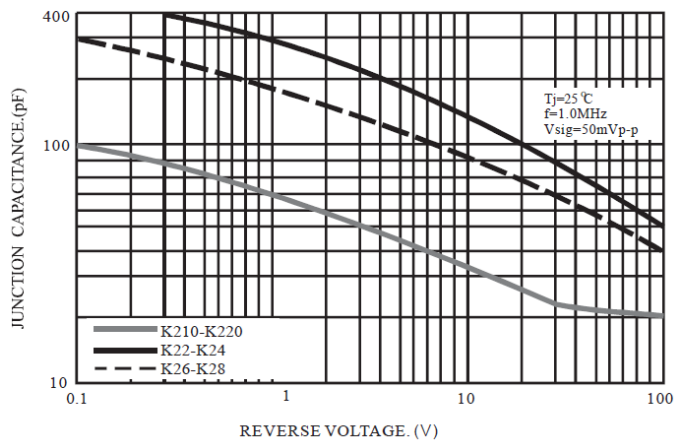


Figure 5. TYPICAL JUNCTION CAPACITANCE

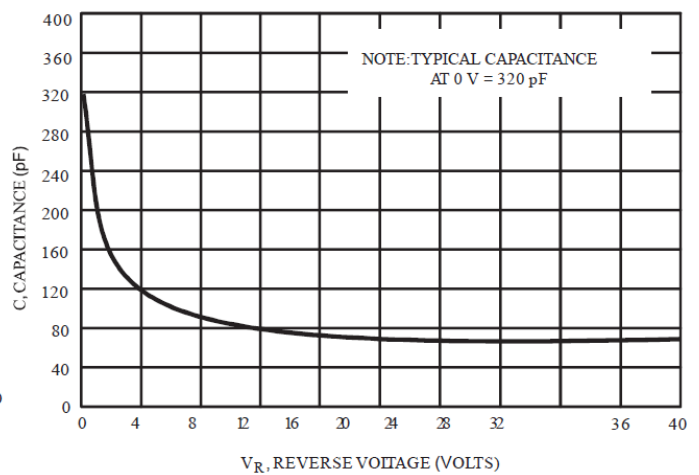


Figure 6. TYPICAL CAPACITANCE



- Package outlines : Dimensions in millimeters

