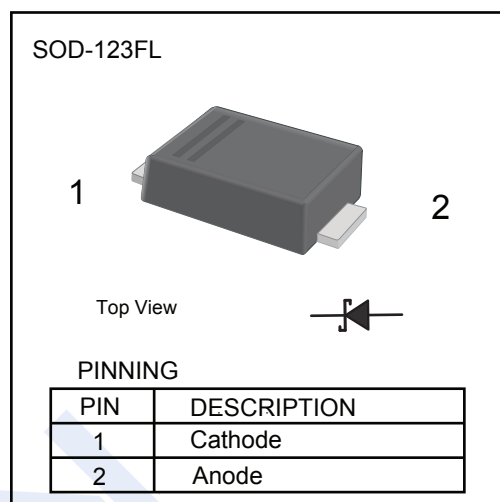


Schottky Diodes

1KK2302D ~ 1KK2320D

■ Features

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



■ Absolute Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	1KK 2302D	1KK 2304D	1KK 2306D	1KK 2310D	1KK 2315D	1KK 2320D	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	42	70	105	140	
Maximum DC Blocking Voltage	V_{DC}	20	40	60	100	150	200	
Maximum Instantaneous Forward Voltage at 3A	V_F	0.55		0.70	0.85	0.95		A
Maximum Averaged Forward Rectified Current	$I_{F(AV)}$	3.0						
Peak Forward Surge Current, 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	80						
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ at rated DC blocking voltage $T_a=100^\circ\text{C}$	I_R	0.5 10		0.3 5				mA
Typical Junction Capacitance *1	C_j	250		160				pF
Typical Thermal Resistance *2	$R_{\theta JA}$	80						°C/W
Operating Junction Temperature Range	T_j	-55 ~ +125						°C
Storage Temperature Range	T_{stg}	-55 ~ +150						

* 1 Measured at 1MHz and applied reverse voltage of 4V D.C.

* 2 P.C.B. mounted with 2.0" × 2.0" (5×5 cm) copper pad areas.

■ Marking

NO.	1KK 2302D	1KK 2304D	1KK 2306D	1KK 2310D	1KK 2315D	1KK 2320D
Marking	DI	DJ	DK	DL	DM	DO

Schottky Diodes

1KK2302D ~ 1KK2320D

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

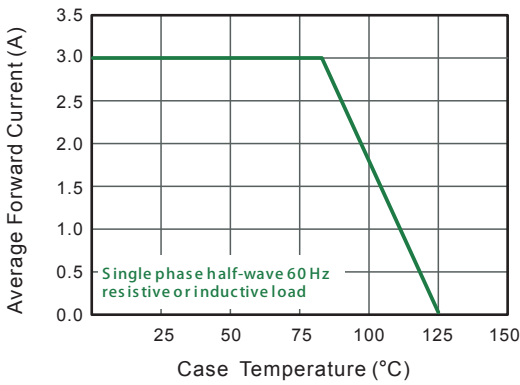


Fig.2 Typical Reverse Characteristics

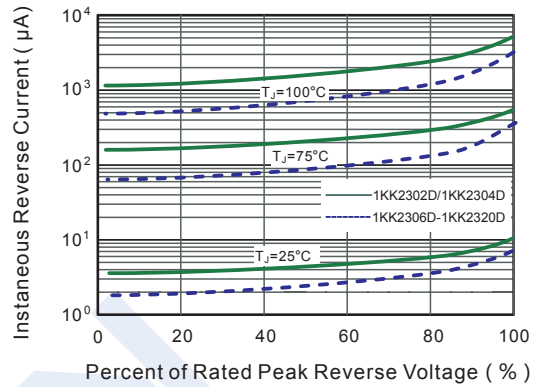


Fig.3 Typical Forward Characteristic

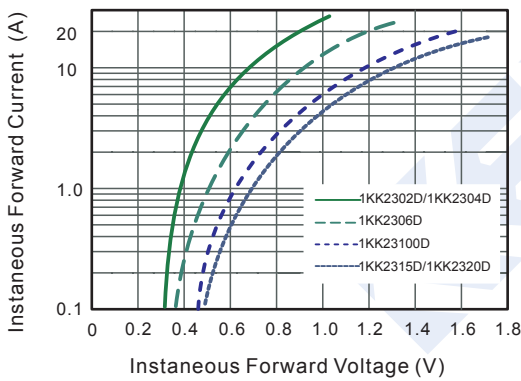


Fig.4 Typical Junction Capacitance

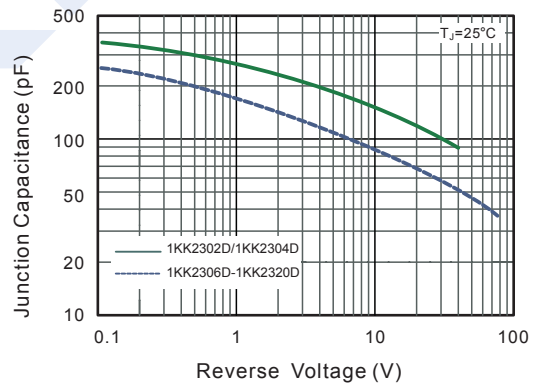


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

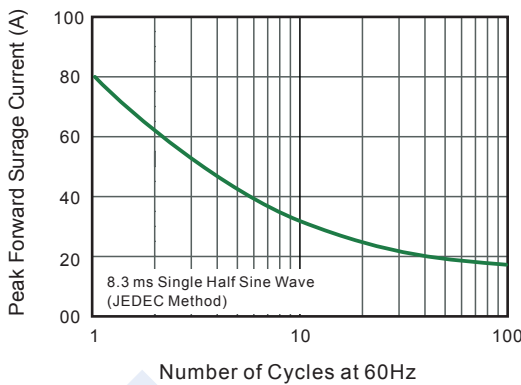
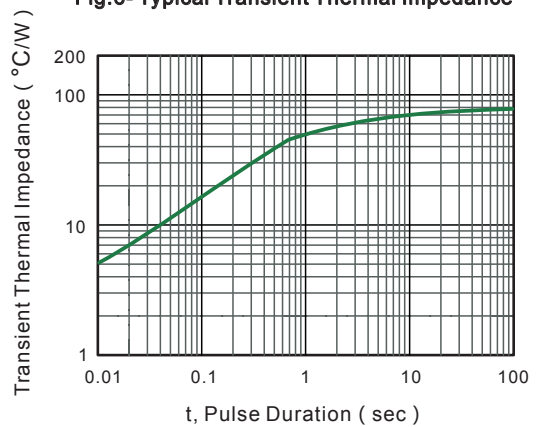


Fig.6- Typical Transient Thermal Impedance



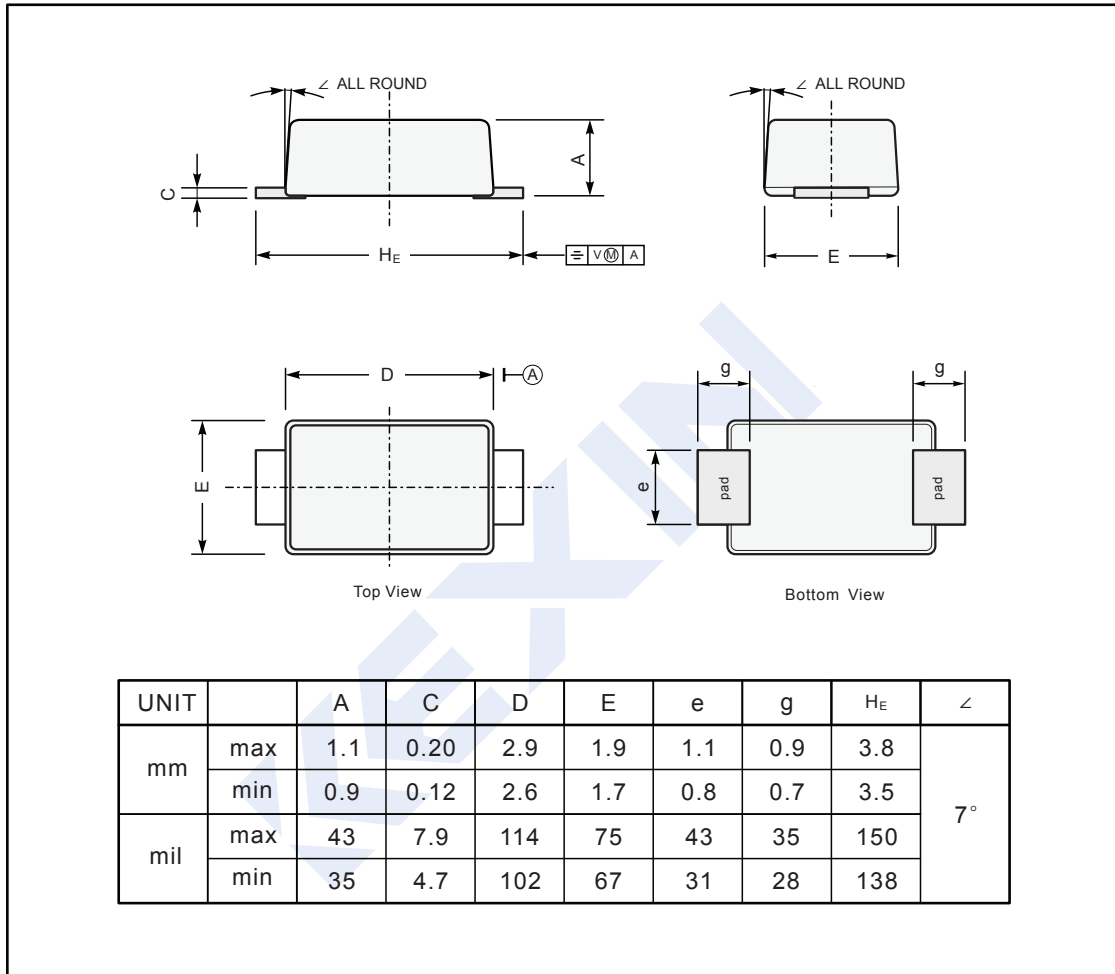
Schottky Diodes

1KK2302D ~ 1KK2320D

■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SOD-123FL



■ The Recommended Mounting Pad Size

