WEE Technology Company Limited

Schottky Barrier Rectifiers

K22 THRU K220

VOLTAGE RANGE **20 to 200 Volts**
CURRENT **2.0 Ampere**

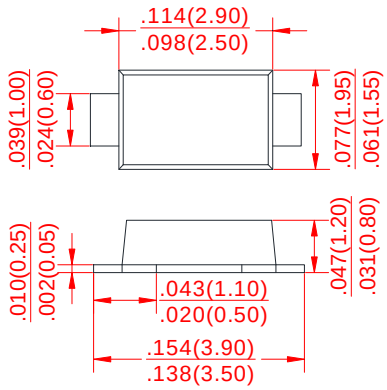
FEATURES

- Low profile surface mount package
- Built-in strain relief
- High switching speed
- Low voltage drop, high efficiency
- For use in low voltage high frequency inverters, Free willing, and polarity protection applications
- Guarding for over voltage protection

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end

SOD-123FL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified.
- Single phase, half wave, 60Hz, resistive or inductive load.
  For capacitive load derate current by 20%.

	SYMBOLS	K22	K23	K24	K25	K26	K28	K29	K210	K215	K220	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	63	70	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	150	200	Volts
Maximum Average Forward Rectified Current at T_L =105℃	$I_{(AV)}$	2.0										Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50										Amps
Maximum Instantaneous Forward Voltage @ 2.0A(Note1)	V_F	0.55			0.70		0.85			0.90		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element, T_A = 25℃	I_R	0.5										mA
T_A =100℃		20.0			10.0							
Operating Junction Temperature	T_J	-55 to +125										℃
Storage Temperature Range	T_{STG}	-55 to +150										℃

Notes:

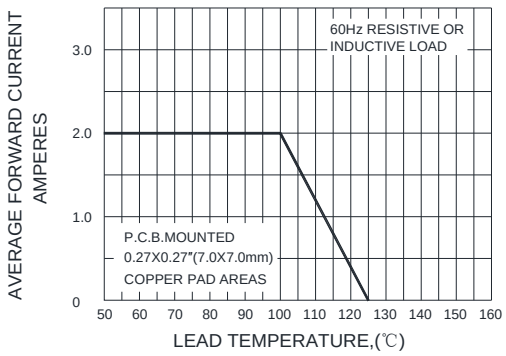
1. Pulse test: 300 μ S pulse width,1% duty cycle
2. PCB mounted with 0.28×0.28″ (7.0 × 7.0mm) copper pads

WEE Technology Company Limited

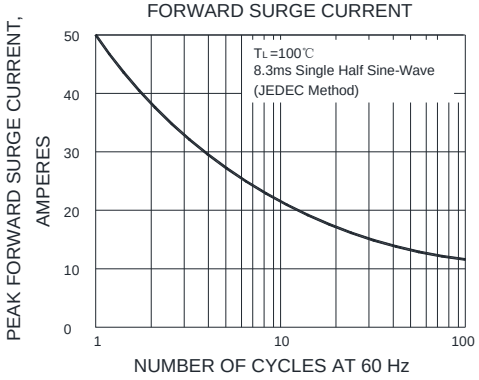
Schottky Barrier Rectifiers

K22 THRU K220	VOLTAGE RANGE	20 to 200 Volts
	CURRENT	2.0 Ampere

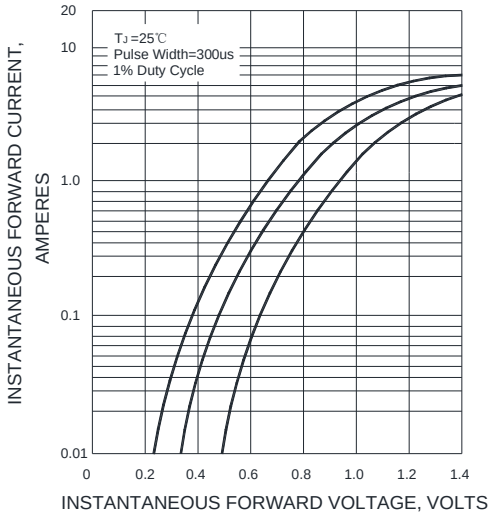
F1G.1-FORWARD CURRENT DERATING CURVE



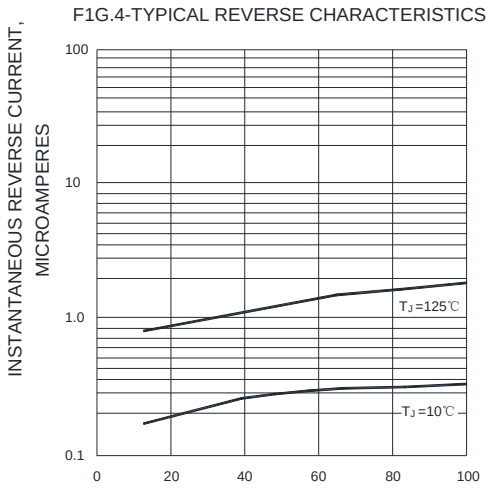
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



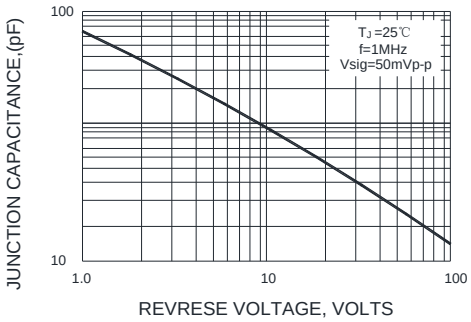
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.

Web: www.weetcl.com Blog: www.weediode.com , www.smddip.com
Tel:(852)31178999 Fax:(852)30697096 info@weetcl.com