PECLERS®

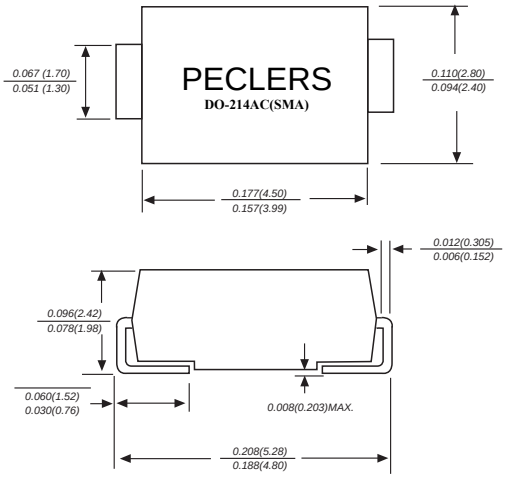
SK22 THRU SK220

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: **20 to 200 VOLTS**
FORWARD CURRENT: **2.0 AMPERE**

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- High current capacity
- Built-in strain relief
- Low profile package
- Metal to silicon rectifier. majority carrier conduction
- High surge capacity
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering : 250°C /10 seconds at terminals



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, DO-214AC(SMA)
Terminals: Axial leads, solderable per MIL-STD-750, method 2026 guaranteed
Polarity: Color band denotes cathode end
Packaging: 12mm tape per EIA STD RS-481
Weight: 0.002 ounce, 0.064 gram

Maximum Ratings and Electrical Characteristics

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

	Symbols	*SK22*	*SK23*	*SK24*	*SK25*	*SK26*	*SK28*	*SK29*	*SK210*	*SK21*	*SK220*	Units
Maximum Recurrent 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 (See Fig. 1)	$I_{(AV)}$	2.0										**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		50										**Amp**
Maximum Forward Voltage at 2.0A (Note 1)	V_F	0.50			0.70		0.85			0.95		**Volts**
Maximum Reverse Current at T_A=25℃	I_R	0.5										**mAmp**
at Rated DC Blocking Voltage T_A=100℃		20										
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	75										℃/W
	$R_{\theta JL}$	17										
Operating Junction Temperature Range	T_J	-55 to +125										℃
Storage Temperature Range	Tstg	-55 to +150										℃

NOTES:

1- Pulse test: 300μs pulse width, 1% duty cycle

2- P.C.B. mounted with 0.3 x 0.3” (8.0 x 8.0mm) Copper Pad Areas

RATINGS AND CHARACTERISTIC CURVES

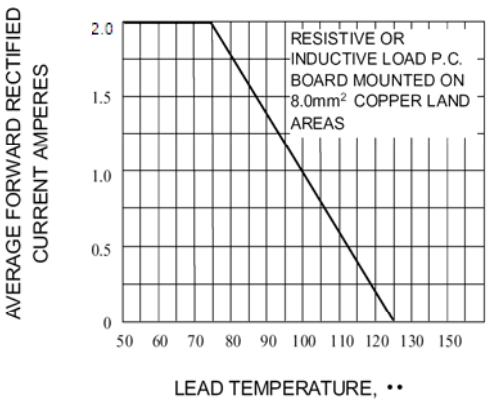


Fig. 1-FORWARD CURRENT DERATING CURVE

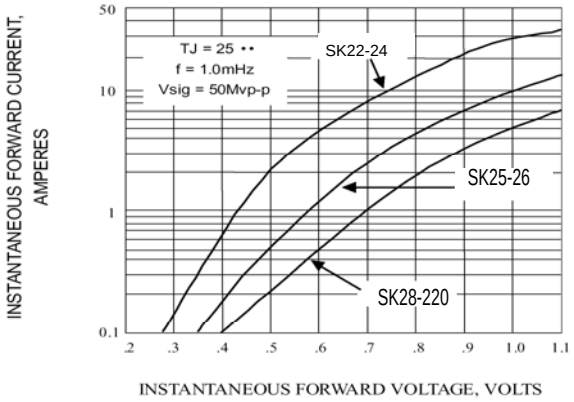


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

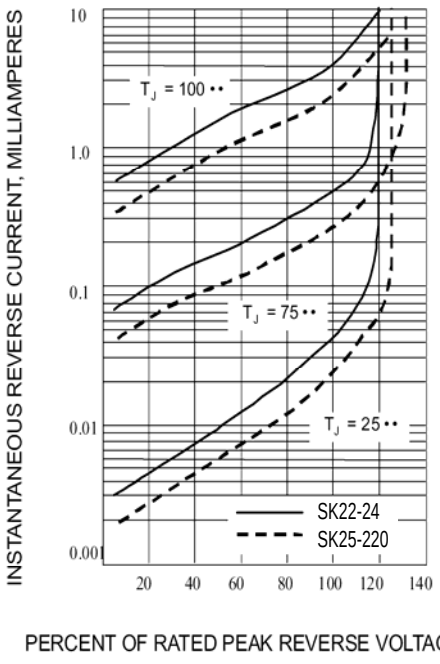


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

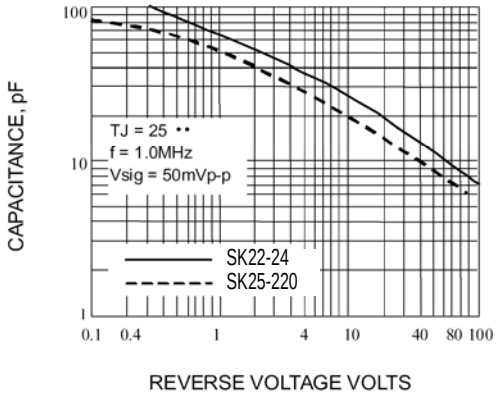


Fig. 4-TYPICAL JUNCTION CAPACITANCE

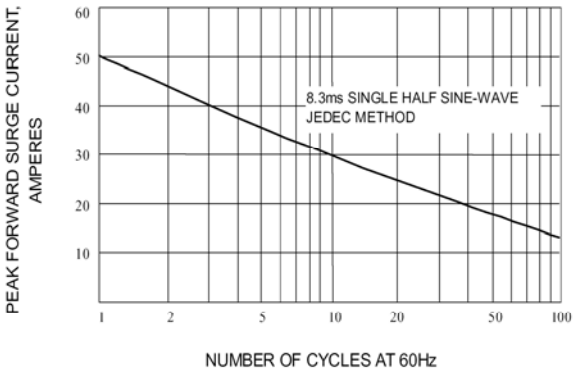


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT