



CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

GLASS PASSIVATED SILICON RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 1.0 Ampere

SR4001PT

THRU

SR4007PT

Lead free devices

FEATURES

- * Low leakage current
- * Ideal for surface mounted applications
- * Metallurgically bonded construction
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Glass passivated junction
- * High temperature soldering guaranteed : 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC MELF molded plastic

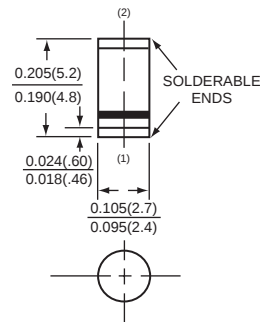
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Indicated by cathode band

Weight: 0.116 gram



MELF



Dimensions in inches and (millimeters)

MELF

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS		SYMBOL	SR4001PT	SR4002PT	SR4003PT	SR4004PT	SR4005PT	SR4006PT	SR4007PT	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current TA = 75°C		Io	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	30							Amps
Typical Junction Capacitance (Note 1)		CJ	15							pF
Maximum Thermal Resistance	(Note 2)	R θJL	20							°C / W
	(Note 3)	R θJA	50							°C / W
Operating and Storage Temperature Range		TJ, TSTG	-65 to +175							°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SR4001PT	SR4002PT	SR4003PT	SR4004PT	SR4005PT	SR4006PT	SR4007PT	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A DC		VF	1.0							Volts
Maximum Full Load Reverse Current, Full cycle Average at TA = 75°C		IR	30							uAmps
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C		5.0							uAmps
	@ TA = 125°C		50							uAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts
2. Thermal Resistance Junction to terminal, 6.0 mm² copper pads to each terminal
3. Thermal Resistance Junction to ambient, 6.0 mm² copper pads to each terminal

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RATING CHARACTERISTIC CURVES (SR4001PT THRU SR4007PT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

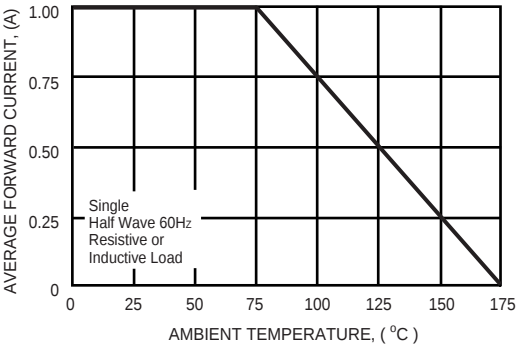


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

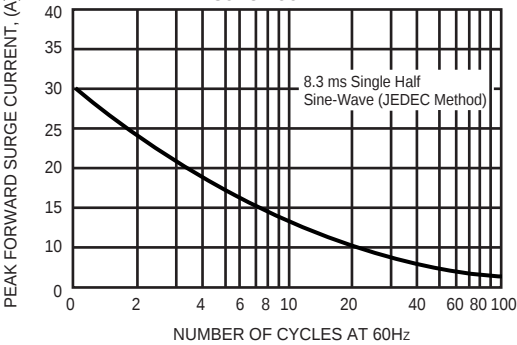


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

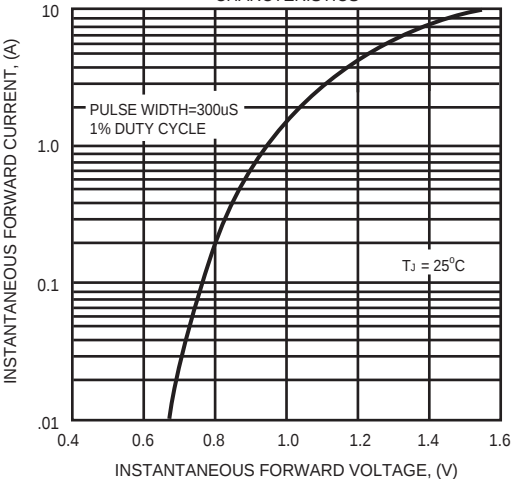


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

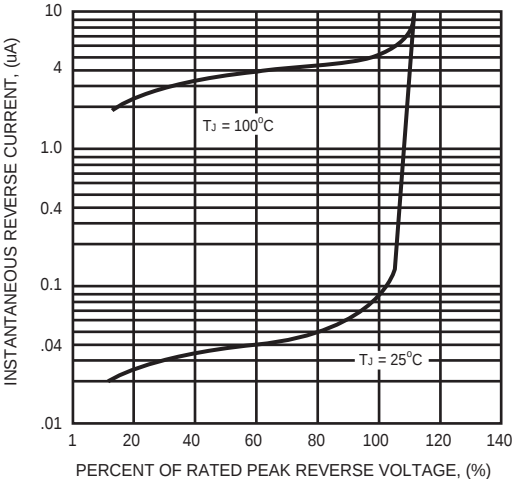


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

