



CHENMKO ENTERPRISE CO.,LTD

SILICON RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 1.0 Ampere

1N4001PT

THRU

1N4007PT

Lead free devices

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

Case: JEDEC DO-41 molded plastic

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

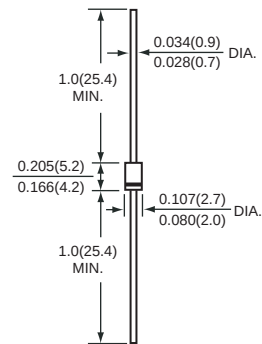
Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.33 gram



DO-41



Dimensions in inches and (millimeters)

DO-41

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

RATINGS	SYMBOL	1N4001PT	1N4002PT	1N4003PT	1N4004PT	1N4005PT	1N4006PT	1N4007PT	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 at 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)	CJ	15							pF
Typical Thermal Resistance	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	1N4001PT	1N4002PT	1N4003PT	1N4004PT	1N4005PT	1N4006PT	1N4007PT	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A DC	VF	1.1							Volts
Maximum Reverse Current at rated	IR	5.0							uAmps
DC blocking Voltage per leg		50							uAmps
Maximum Full Load Reverse Current Average, Full Cycle 0.375" (9.5mm) lead length at TL = 75°C		30							uAmps

NOTES : Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2001-6

RATING CHARACTERISTIC CURVES (1N4001PT THRU 1N4007PT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

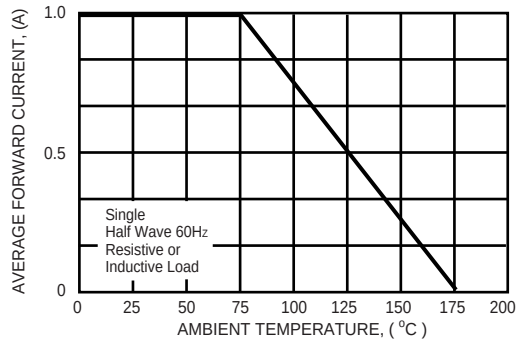


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

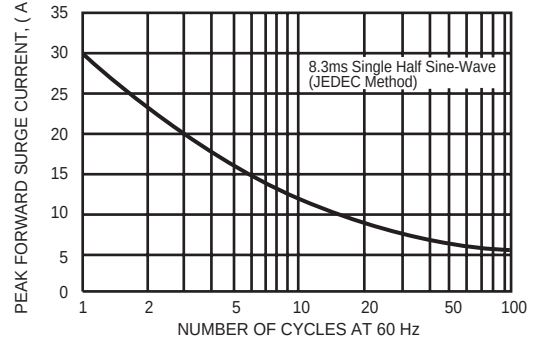


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

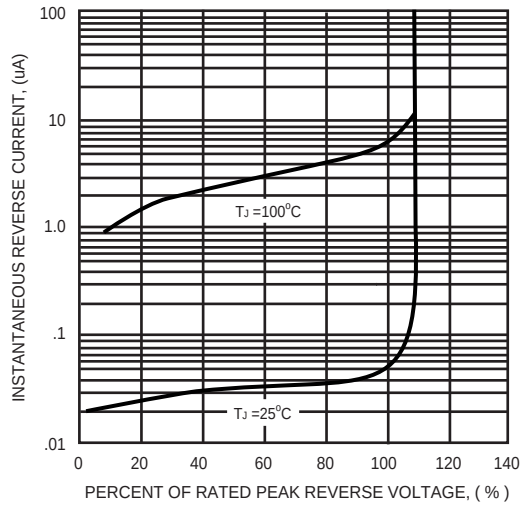


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

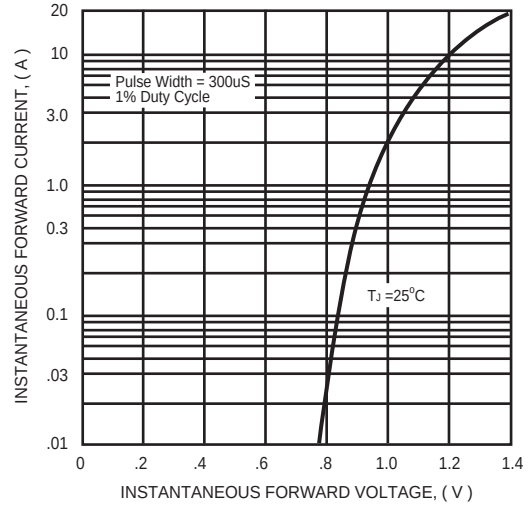


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

