



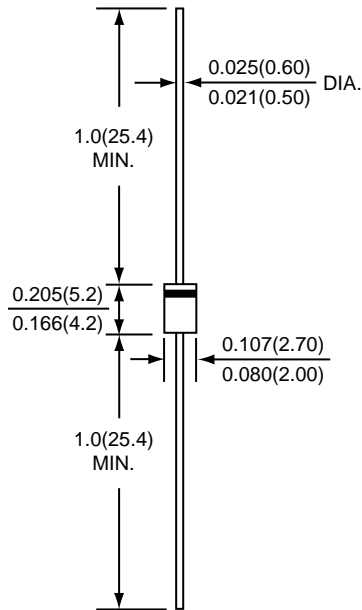
1N4001E THRU 1N4007E

SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0 Ampere

A-405



*Dimensions in inches and (millimeters)



FEATURES

- * High reliability
- * Low reverse leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

Case : JEDEC A-405 molded plastic
Epoxy : UL 94V-O rate flame retardant
Lead : MIL-STD-202F method 208C guaranteed
Mounting Position : Any
Weight : 0.20 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	1N4001E	1N4002E	1N4003E	1N4004E	1N4005E	1N4006E	1N4007E	UNITS
Maximum repetitive 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=55°C	I(AV)	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							Amps
Maximum instantaneous forward voltage at 1.0 A	VF	1.1							Volts
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at TL=75°C	IR(AV)	30							uA
Maximum DC reverse current at rated DC blocking voltage	IR	5.0 50							uA
Typical junction capacitance (NOTE)	CJ	15							pF
Typical thermal resistance	R θJA	50							°C / W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175							°C

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

RATINGS AND CHARACTERISTIC CURVES 1N4001E THRU 1N4007E

FIG.1 - FORWARD CURRENT DERATING CURVE

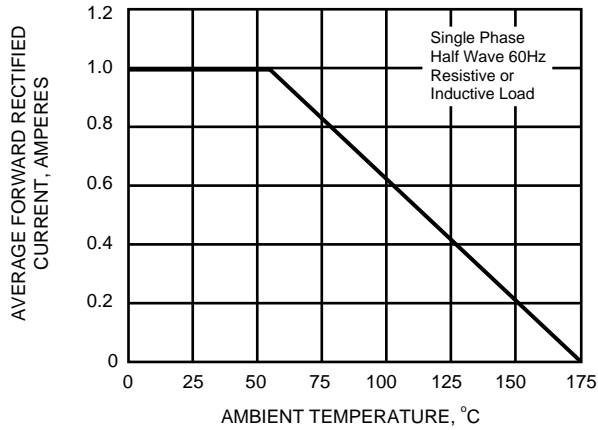


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

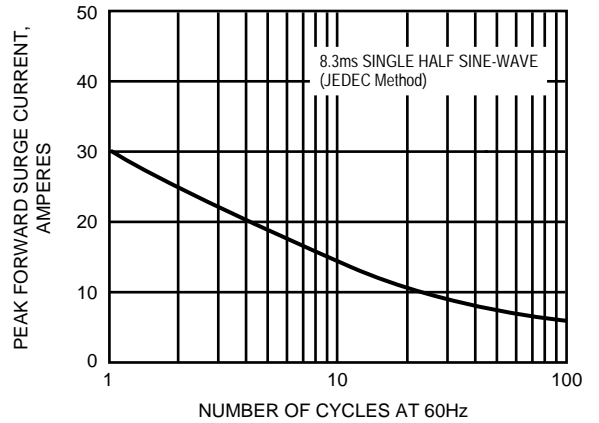


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

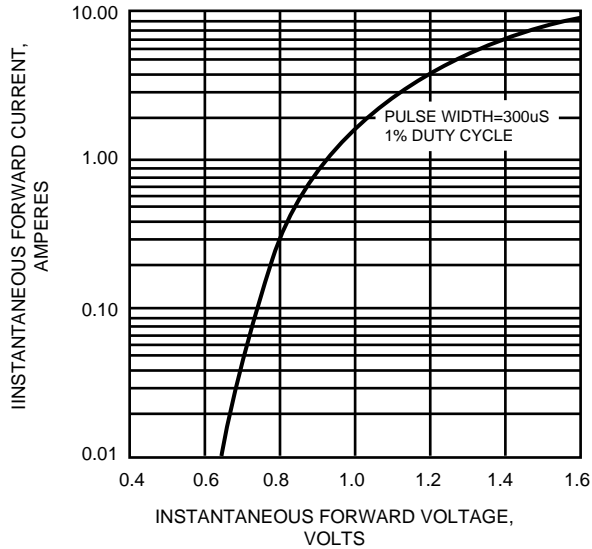


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

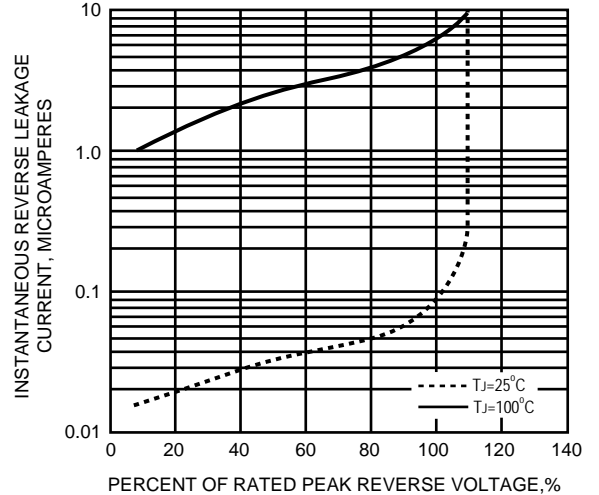


FIG.5 - TYPICAL JUNCTION CAPACITANCE

