



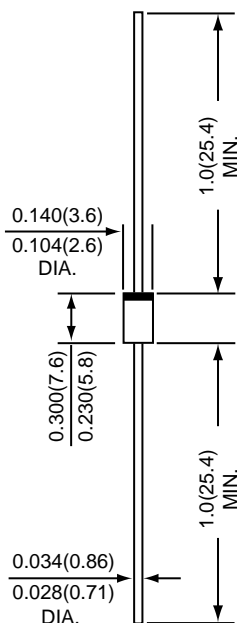
1N5391 THRU 1N5399

SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.5 Amperes

DO-204AC



*Dimensions in inches and (millimeters)



FEATURES

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

MECHANICAL DATA

Case : JEDEC DO-204AC molded plastic
Epoxy : UL 94V-O rate flame retardant
Lead : MIL-STD-202F method 208C guaranteed
Mounting Position : Any
Weight : 0.38 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	1N5391	1N5392	1N5393	1N5394	1N5395	1N5396	1N5397	1N5398	1N5399	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	210	280	350	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	300	400	500	600	800	1000	Volts
Maximum average forward rectified current at TL=70°C	I(AV)	1.5									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50									Amps
Maximum instantaneous forward voltage at 1.5 A	VF	1.4									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	20									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 1N5391 THRU 1N5399

FIG.1 - FORWARD CURRENT DERATING CURVE

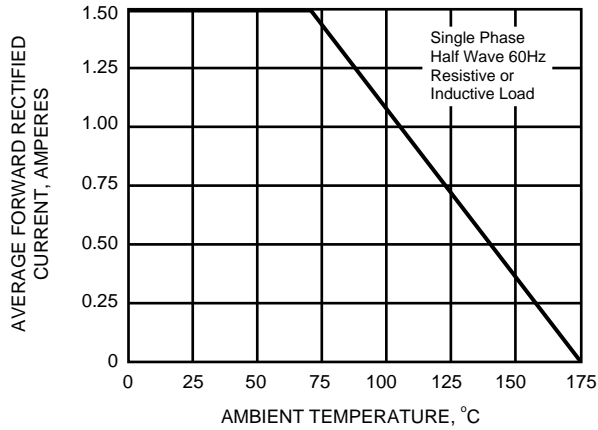


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

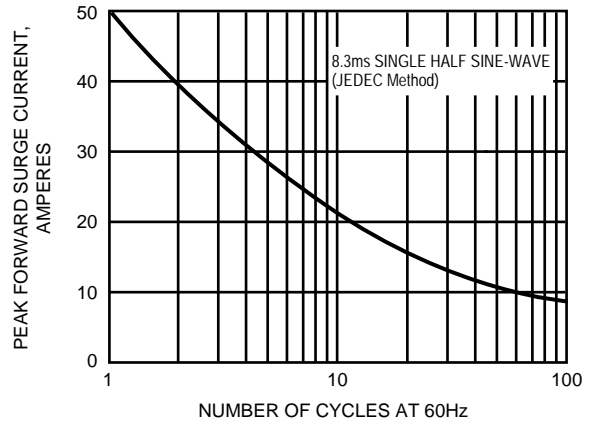


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

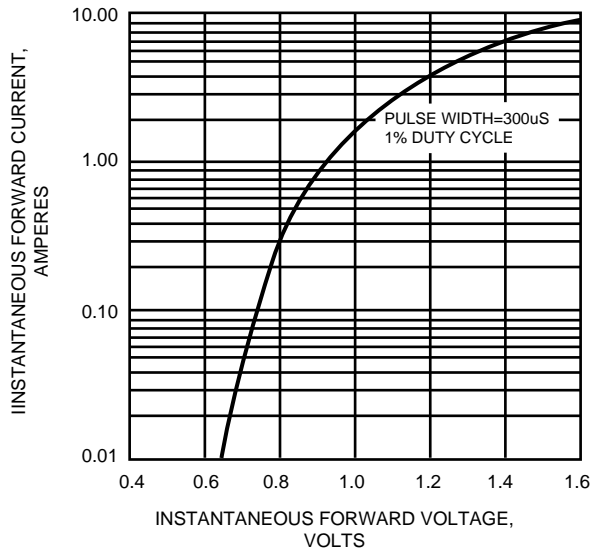


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

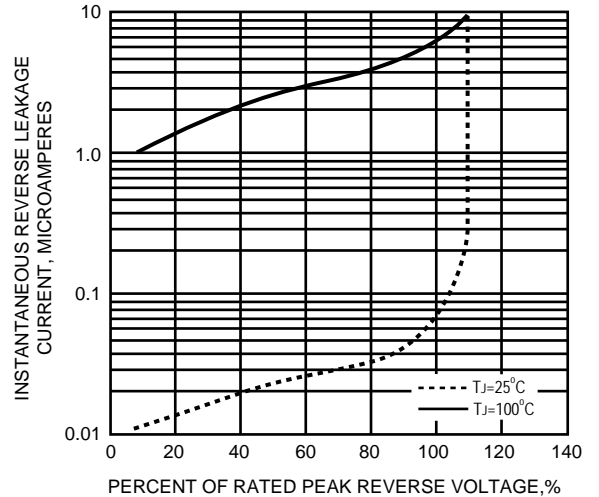


FIG.5 - TYPICAL JUNCTION CAPACITANCE

