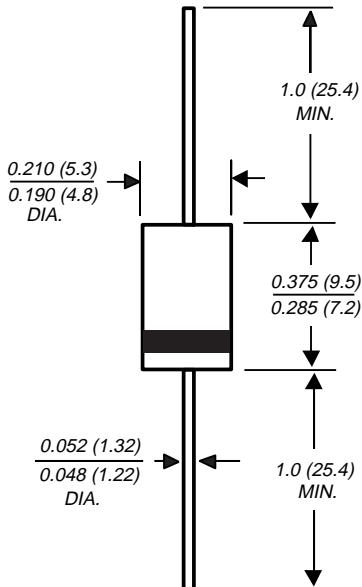



DO-201AD

Dimensions in inches and (millimeters)

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	GI 500	GI 501	GI 502	GI 504	GI 506	GI 508	GI 510	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =95°C	I _{F(AV)}						3.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					100			A
Typical thermal resistance (NOTE 1)	R _{θJA} R _{θJL}				20	5.0			°C/W
Operating junction temperature range	T _J			-50 to +150					°C
Storage temperature range	T _{STG}			-50 to +175					°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	GI 500	GI 501	GI 502	GI 504	GI 506	GI 508	GI 510	UNITS
Maximum instantaneous forward voltage T _J = 25°C at 9.4A T _J =175°C	V _F				1.1	1.0			V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R				5.0	50			μA
Typical reverse recovery time at I _F =0.5A, I _R =1.0A, I _{RT} =0.25A	t _{rr}				2.0				μs
Typical junction capacitance at 4.0V, 1MHz	C _J				28				pF

NOTES:

(1) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted with 0.8 x 0.8" (20 x 20mm) copper heatsinks

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

