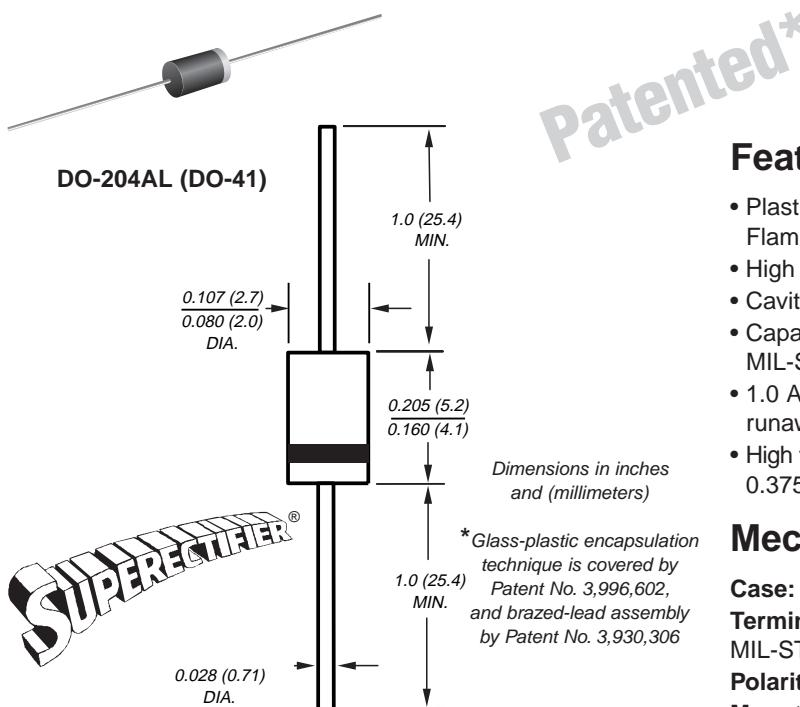


Glass Passivated Junction Rectifiers



NOTE: Lead diameter is $\frac{0.026}{0.023}$ (0.66) (0.58) for suffix "E" part numbers

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	1N 4245GP	1N 4246GP	1N 4247GP	1N 4248GP	1N 4249GP	Unit
* Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	1000	V
* Maximum RMS voltage	V _{RMS}	140	280	420	560	700	V
* Maximum DC blocking voltage	V _{DC}	200	400	600	800	1000	V
* Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A = 55°C	I _{F(AV)}				1.0		A
* Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}			25			A
* Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at T _A = 55°C	I _{R(AV)}			50			µA
Typical thermal resistance ⁽¹⁾	R _{θJA} R _{θJL}			55 25			°C/W
* Operating junction temperature range	T _J			-65 to +160			°C
* Storage temperature range	T _{TSG}			-65 to +175			°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

* Maximum instantaneous forward voltage at 1.0A	V _F	1.2	V
* Maximum reverse current TA = 25°C at rated DC blocking voltage TA = 125°C	I _R	1.0 25	µA
Typical junction capacitance at 4.0V, 1MHz	C _J	8.0	pF

Note: (1) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted *JEDEC registered values

Ratings and Characteristic Curves

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

