

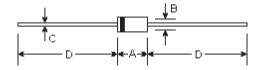
DR200G THRU DR210G

GLASS PASSIVATED JUNCTION RECTIFIER
Reverse Voltage - 50 to 1000 Volts
Forward Current - 2.0 Amperes

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame retardant epoxy molding compound
- 2.0 ampere operation at T_A=55°C with no thermal runaway
- Glass passivated junction in DO-15 package

DO-15



Mechanical Data

• Case: Molded plastic, DO-15

 Terminals: Axial leads, solderable per MIL-STD-202, method 208

• Polarity: Color band denotes cathode

Mounting Position: Any

• Weight: 0.014 ounce, 0.395 gram

DIMENSIONS										
DIM	inches		m	Note						
	Min.	Max.	Min.	Max.	Note					
Α	0.228	0.299	5.8	7.6						
В	0.102	0.142	2.6	3.6	ф					
С	0.028	0.034	0.71	0.86	ф					
D	1.000	-	25.40	-						

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	DR 200G	DR 201G	DR 202G	DR 204G	DR 206G	DR 208G	DR 210G	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at $\rm T_A$ =55 $^{\circ}\rm C$	I _(AV)	2.0							Amps
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{FSM}	70.0							Amps
Maximum forward voltage at 2.0A	V _F	1.1							Volts
$\begin{array}{ll} \text{Maximum DC reverse current} & \text{T}_J = 25^{\circ}\!$	I _R	5.0 300.0							μА
Typical junction capacitance (Note 1)	C _J	40.0							ρF
Typical thermal resistance (Note 2)	R _{⊕JA}	25.0						°C/W	
Operating and storage temperature range	T _J , T _{STG}	-55 to +150							°

Notes:

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC
- (2) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES

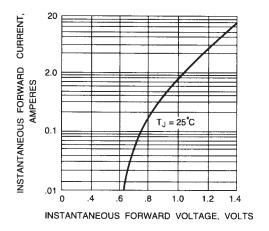


Fig. 1-TYPICAL FORWARD CHARACTERISTICS

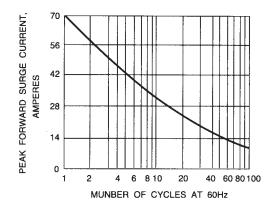


Fig. 2 - PEAK FORWARD SURGE CURRENT

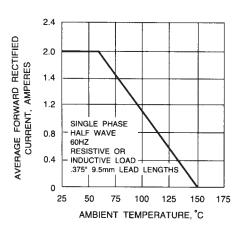


Fig. 3 - FORWARD CURRENT DERATING CURVE

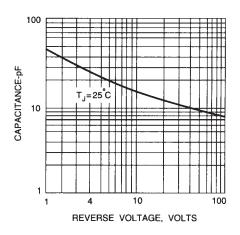


Fig. 4-TYPICAL JUNCTION CAPACITANCE