

Features

- ◆ Glass passivated chip
- ◆ High current capability
- ◆ High reliability
- ◆ Low reverse current
- ◆ Low forward voltage drop

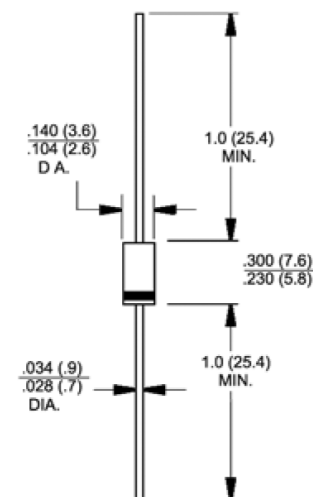
2018



DO-204AC (DO-15)

Mechanical Data

- ◆ Case: Molded plastic DO-204AC(DO-15)
- ◆ Epoxy: UL 94V-O rate flame retardant
- ◆ Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting position: Any
- ◆ Weight: 0.014 ounce, 0.395 gram



Dimensions in inches and (millimeters)

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%

Parameter	Symbols	DR200G	DR201G	DR202G	DR204G	DR206G	DR208G	DR210G	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 current 0.375" (9.5mm) lead length $T_A=50^\circ\text{C}$	$I_{F(AV)}$	2.0							Amps
Peak forward surge current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	50.0							Amps
Maximum forward voltage at $I_F=2.0$ Amps.	V_F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage @ $T_A=25^\circ\text{C}$ @ $T_A=100^\circ\text{C}$	I_R	5.0 300							μA
Typical junction capacitance (Note 1)	C_J	40							pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	25							$^\circ\text{C/W}$
Operating junction temperature range	T_J	-55 to +150							$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150							$^\circ\text{C}$

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC
2. Thermal resistance from Junction to Ambient at 0.375" (9.5mm) Lead Lengths, P.C. Board Mounted.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 - DERATING CURVE FOR OUTPUT
RECTIFIED CURRENT

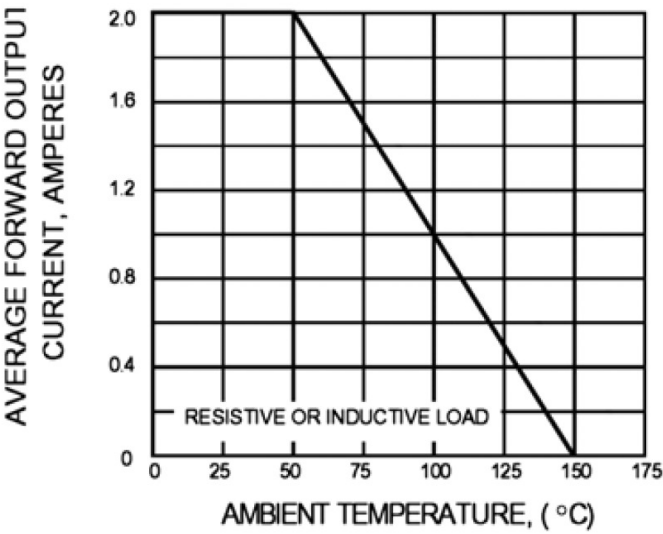


FIG.2 - MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

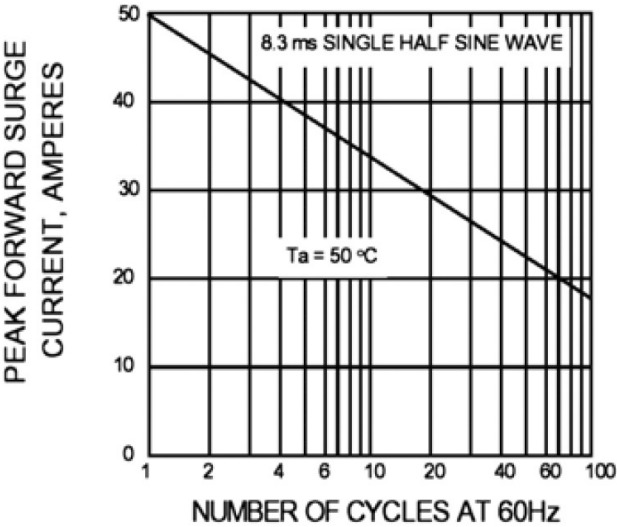


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

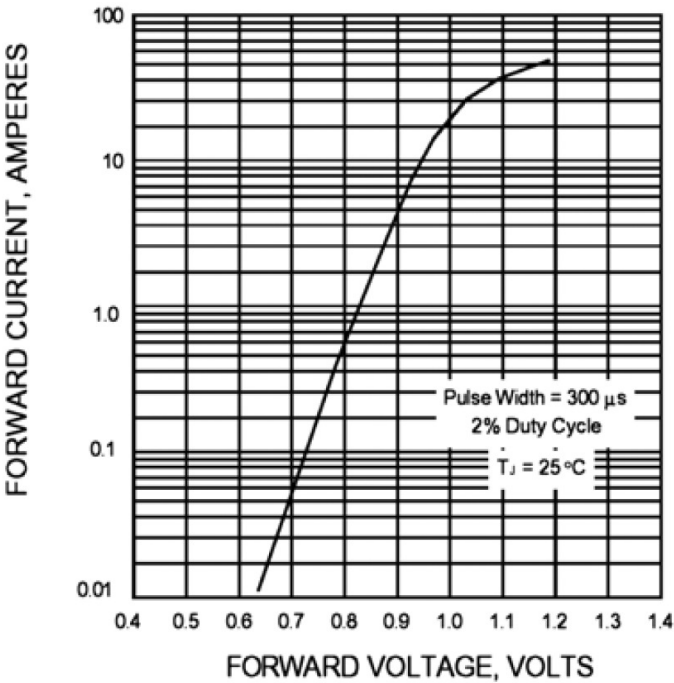


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

