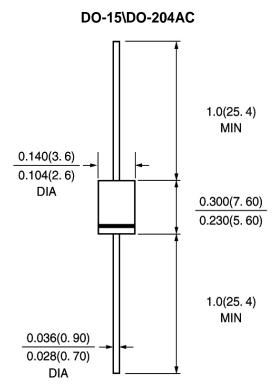


- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability.
- High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm)lead length at 5 lbs (2.3kg) tension.

MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V 0 rate flame retardant.
- Polarity: Color band denotes cathode end.
- Lead: Plated axial lead, solderable per MIL STD 202E method 208C
- Mounting position: Any
- Weight: 0.014 ounce, 0.39grams

FR201 THRU FR207



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%

		SYMBOLS	FR201	FR202	FR203	FR204	FR205	FR26	FR207	UNIT
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 $T_A=75^{\circ}C$		I _(AV)	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)		I _{FSM}	70						Amps	
Maximum Instantaneous Forward Voltage at 2.0A		V _F	1.3						Volts	
Maximum DC Reverse Current at rated DC blocking voltage	$T_{A} = 25^{\circ}C$ $T_{A} = 100^{\circ}C$	- I _R	5.0 200			$\mu \mathbf{A}$				
Maximum Reverse Recovery Time (Note 3) $T_j = 25^{\circ}C$		t _{rr}	150		25	50	500	nS		
Typical Junction Capacitance (Note 1)		CJ	25						pF	
Typical Thermal Resistance (Note2)		$R_{\theta JA}$	40							°C/W
Operating and Storage Temperature Range		T _J	(-65 to +150)							°C
Storage Temperature Range		T _{STG}	(-65 to +150)							°C

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, P.C. board mounted.

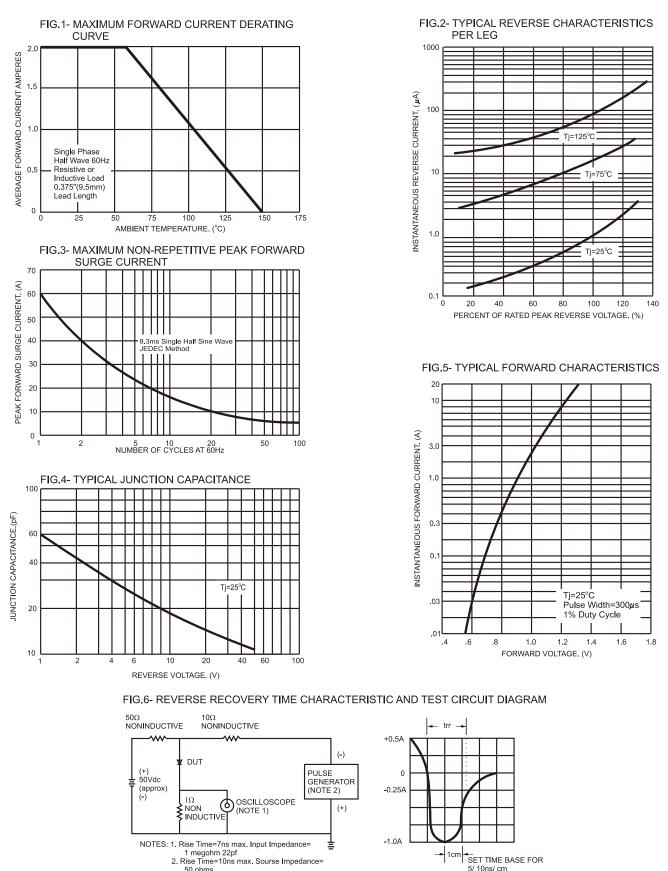
3. Reverse Recovery Test Condition: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$



CURRENT 2.0 Ampere **VOLTAGE RANG** 50 to 1000 Volts

FR201 THRU FR207

RATING AND CHRACTERISTIC CURVES FR201 Thru FR207



50 ohms

5/ 10ns/ cm