



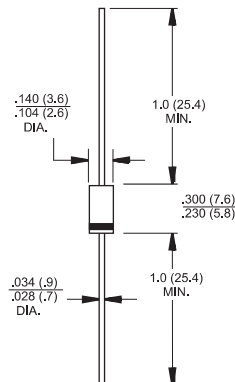
DO-15 / DO-204AC

Features

- ◇ Designed for use in switching power supplies, inverters and as free wheeling diodes
- ◇ High efficiency, low VF
- ◇ High reliability
- ◇ Ultrafast recovery time for high efficiency
- ◇ 175°C operating junction temperature

Mechanical Data

- ◇ Cases: Molded plastic
- ◇ Epoxy: UL 94V-0 rate flame retardant
- ◇ Polarity: Color band denotes cathode
- ◇ High temperature soldering guaranteed:
260 °C /10 seconds/.375", (9.5mm) lead lengths
at 5 lbs., (2.3kg) tension
- ◇ Weight: 0.34 grams



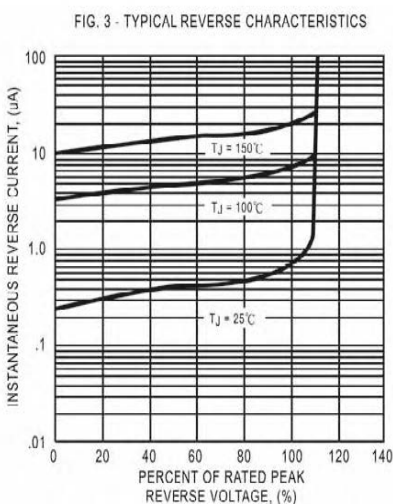
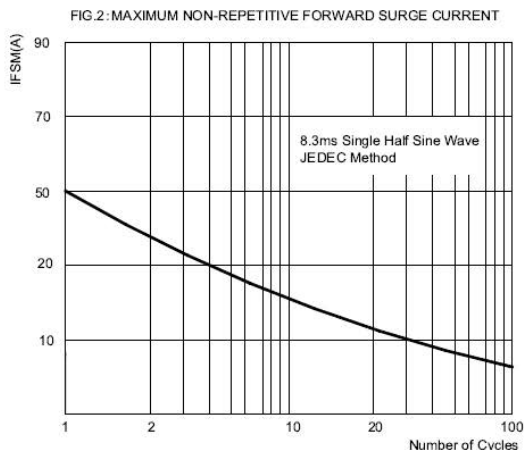
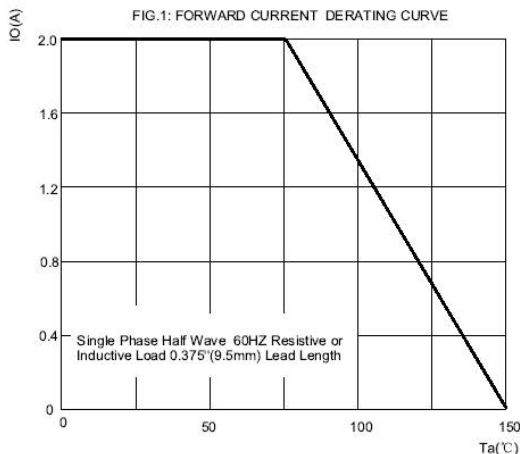
Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

Type Number	Symbol	MUR205	MUR210	MUR215	MUR220	MUR230	MUR240	MUR260	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current (Square Wave Note 4) @ $T_A=80^\circ\text{C}$	$I_{(AV)}$	2.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage @ 1.0A $T_j=25^\circ\text{C}$	V_F	0.95					1.30	1.35	V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	5.0					150		uA uA
Maximum Reverse Recovery Time (Note 2)	T_{rr}	20		25		50			nS
Typical Junction Capacitance (Note 1)	C_j	50							pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	55							°C/W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

- Notes:
1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
 2. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
 3. Thermal Resistance from Junction to Ambient, with units Mounted on P.C. Board with 0.2" x 0.2" Copper Surface.
 4. Pulse Test: Pulse Width = 300uS, Duty Cycle < 2.0%.



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
DO-15	3000/AMMO	30000	42X28X31	12.00	10.00