

## MUR210-MUR2100 2.0Amp Ultra Fast Rectifiers

### Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Low reverse leakage
- High forward surge current capability
- Low forward voltage,high efficiency.
- For use in low voltage,high frequency inverters.
- Dual rectifier construction,positive center tap.
- High temperature soldering guaranteed:  
260°C/10 seconds,0.375"(9.5mm) lead length,  
5 lbs. (2.3kg) tension

### Mechanical Data

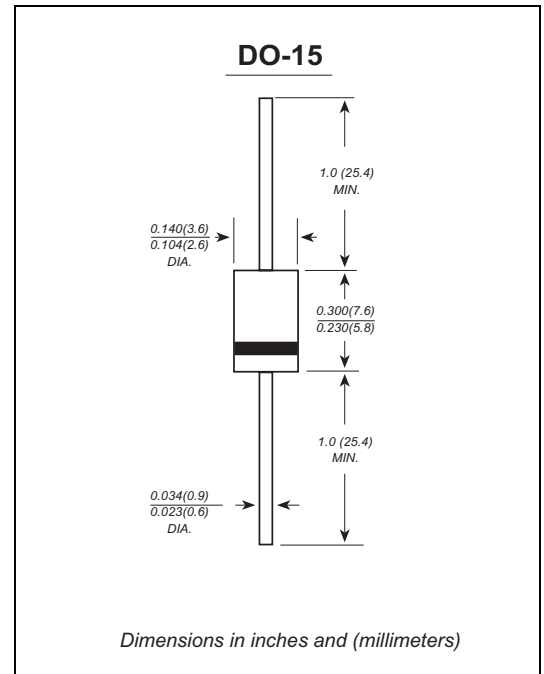
**Case:** JEDEC DO-15 molded plastic body

**Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.014 ounce, 0.40 grams



### 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 current derate by 20%.

	SYMBOLS	MUR210	MUR220	MUR240	MUR260	MUR280	MUR2100	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	$V_{DC}$	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at $T_L=60^\circ C$	$I_{(AV)}$	2.0						Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50						Amps
Maximum instantaneous forward voltage at 2.0A	$V_F$	0.95		1.28		1.85		Volts
Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage $T_A=100^\circ C$	$I_R$	10.0 500.0						$\mu A$
Maximum reverse recovery time (NOTE 1)	$t_{rr}$	45		60		75		nS
Typical junction capacitance (Note 2)	$C_J$	25						pF
Typical thermal resistance	$R_{qJA}$	62.5						$^\circ C/W$
Storage temperature range & Operating junction	$T_J, T_{STG}$	-55 to +150						$^\circ C$

**Note:** 1.Reverse recovery time test condition:  $I_F=0.5A$   $I_R=1.0A$   $I_{rr}=0.25A$

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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# Ratings And Characteristic Curves

## MUR210 THRU MBR2100

FIG. 1- FORWARD CURRENT DERATING CURVE

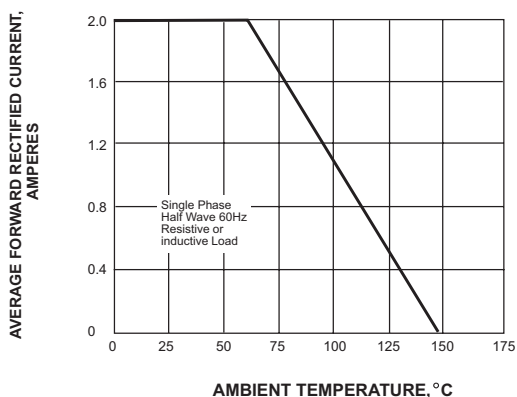


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

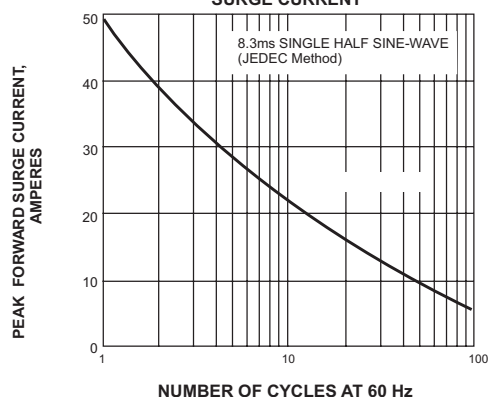


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

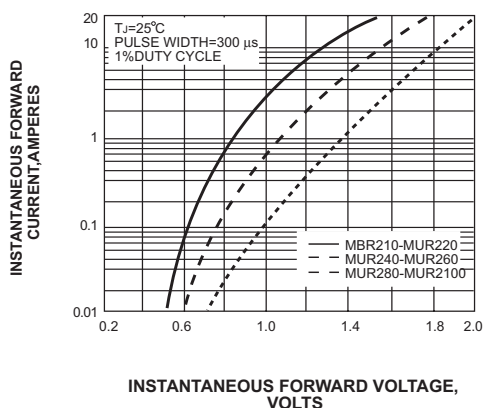


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

