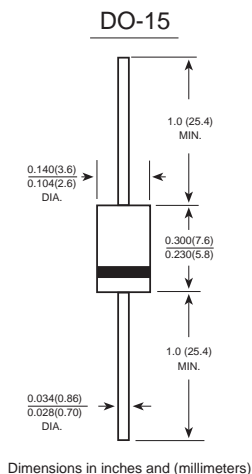


# MUR220 THRU MUR260

## ULTRA FAST RECTIFIERS

Reverse Voltage - 200 to 600 Volts Forward Current - 2.0 Amperes



### FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Ultra 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, 5 lbs. (2.3kg) tension

### MECHANICAL DATA

Case: JEDEC DO-15 molded plastic body over passivated chip  
 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

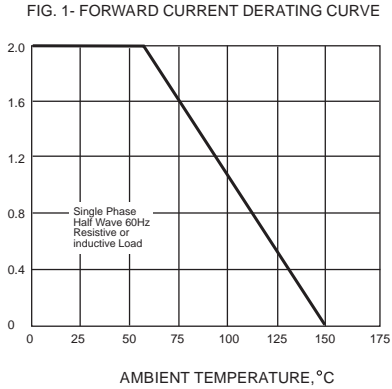
Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	MUR220	MUR240	MUR260	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	200	400	600	VOLTS
Maximum RMS voltage	$V_{RMS}$	140	280	420	VOLTS
Maximum DC blocking voltage	$V_{DC}$	200	400	600	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length	$I_{(AV)}$	2.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	35			Amps
Maximum instantaneous forward voltage at 2.0A	$V_F$	0.95	1.30	1.35	Volts
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	$I_R$	2.0 50	5.0 150		$\mu\text{A}$
Maximum reverse recovery time (NOTE 1)	$t_{rr}$	25	50		ns
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	35.0			$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150			$^\circ\text{C}$

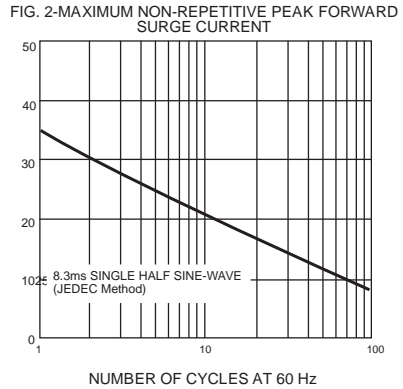
Note: 1. Reverse recovery condition  $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$   
 2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

# RATINGS AND CHARACTERISTIC CURVES MUR220 THRU MUR260

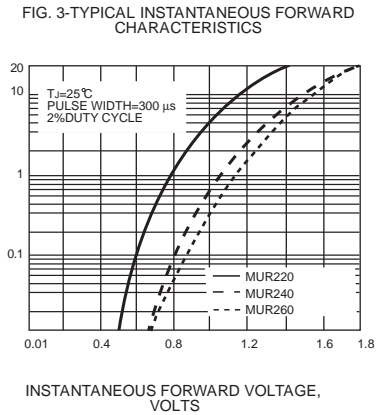
AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES



PEAK FORWARD SURGE CURRENT,  
AMPERES



INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT,  
MICROAMPERES

