

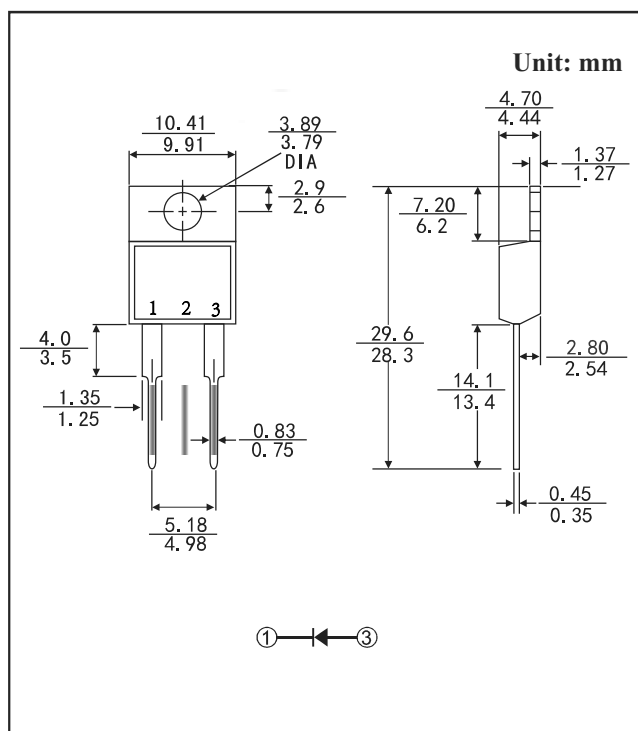
TO-220AC Ultra-Fast Recovery Rectifier Diodes

Features

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability.
- Easily cleaned with Alcohol, Isopropanol and similar solvents

Mechanical Data

- Case: TO-220AC
- Molding compound, UL flammability classification rating 94V-0
- Terminals: Matte tin plated leads, solderable per MIL-STD-202, Method 208



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Characteristic	Symbol	MUR3040	MUR3060	Units
Peak repetitive reverse voltage	V_{RRM}	400	600	V
RMS reverse voltage	V_{RMS}	280	420	V
DC blocking voltage	V_{DC}	400	600	V
Maximum average forward output current	$I_{F(AV)}$	30		A
Peak forward surge current, 8.3ms single half-sine-wave	I_{FSM}	300		A

Thermal Characteristics

Parameter	Symbol	Value	Units
Operating junction temperature range	T_J	-55 to +175	°C
Storage temperature range	T_{STG}	-55 to +175	°C

Electrical Characteristics (@ $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Max.		Units
			MUR3040	MUR3060	
Forward Voltage	V _F *	I _F =30A	1.3	1.55	V
Maximum Peak Reverse Current	I _R *	V _R = Rated V _{RRM} , T _J =25°C	10		uA
		V _R = Rated V _{RRM} , T _J =125°C	500		
Reverse Recover Time	t _{rr}	I _F =0.5A, I _R =1A, I _{rr} =0.25A	50		ns

Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Figure 1
Typical Forward Characteristics @ $T_J = 25^{\circ}\text{C}$

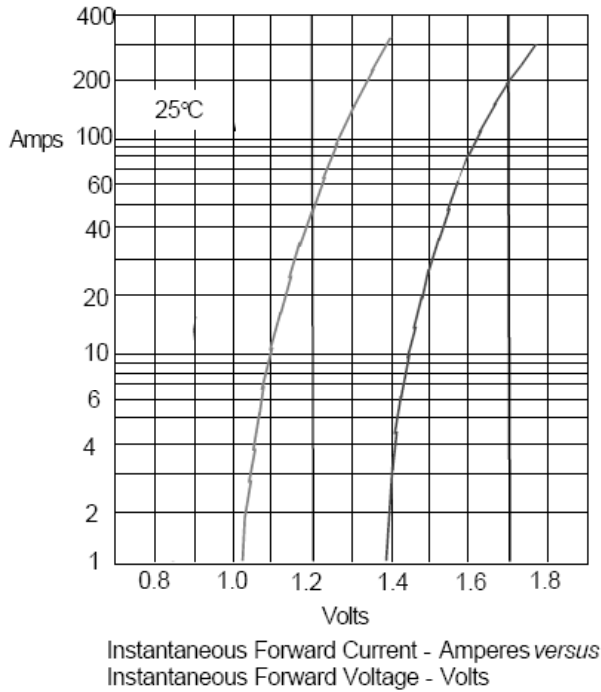


Figure 2
Typical Forward Characteristics @ $T_J = 100^{\circ}\text{C}$

