

MUR3020PT - MUR3060PT  
30A SUPER FAST RECOVERY



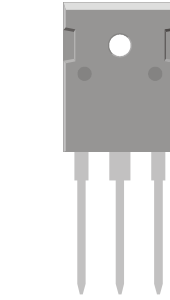
MUR3020PT - MUR3060PT

Features:

- High Surge Capability
- Low Forward Voltage Drop
- High Current Capability
- Super Fast Switching Speed For High Efficiency



TO-247



1. Anode 2. Cathode 3. Anode

**Absolute Maximum Ratings** (Ta=25°C unless otherwise noted)

Parameter	Symbol	MUR3020PT	MUR3040PT	MUR3060PT	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	200	400	600	V
Maximum RMS Voltage	VRMS	140	280	420	
Maximum DC Blocking Voltage	VR(DC)	200	400	600	
Maximum Average Forward Current	IF(AV)	30			A
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	250			
Maximum Forward Voltage at 15A per leg	VF	0.9	1.3	1.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Tj=25°C	0.2			mA
	Tj=125°C	5			
Maximum Operating Junction Temperature	Tj	150			°C
Storage Temperature	Tstg	-35 ~ +150			
Typical Thermal Resistance	RθJC	1.5			°C/W

Typical Characteristics

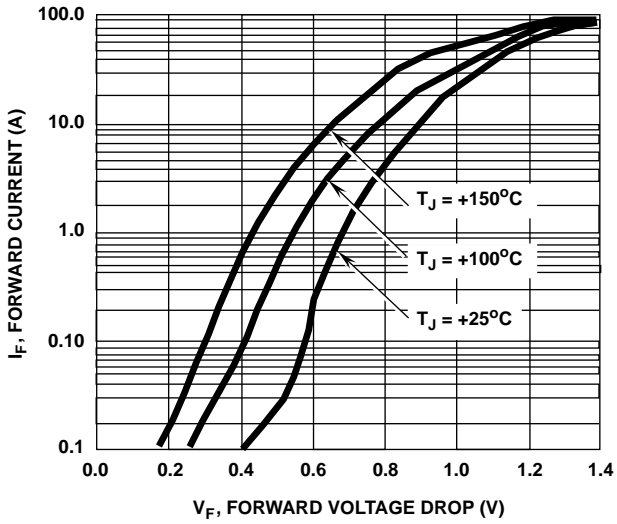


FIGURE 3. FORWARD VOLTAGE vs FORWARD CURRENT CHARACTERISTIC

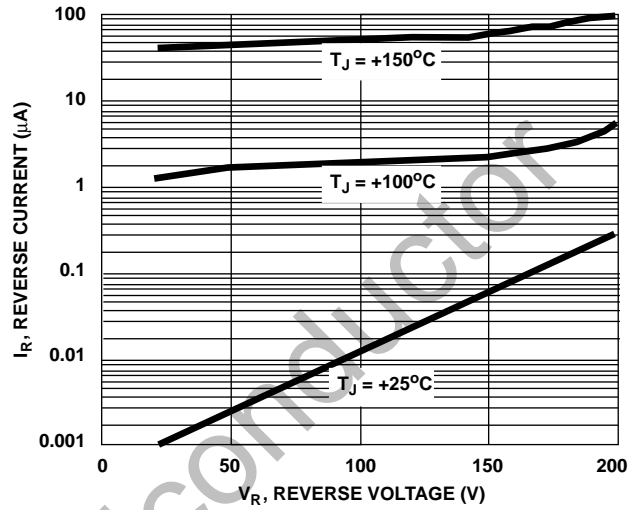


FIGURE 4. REVERSE VOLTAGE vs REVERSE CURRENT CHARACTERISTIC

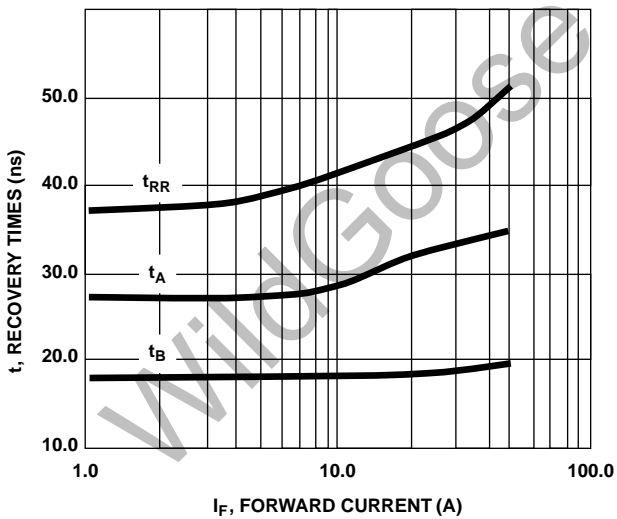


FIGURE 5. TYPICAL  $t_{RR}$ ,  $t_A$  AND  $t_B$  CURVES vs FORWARD CURRENT

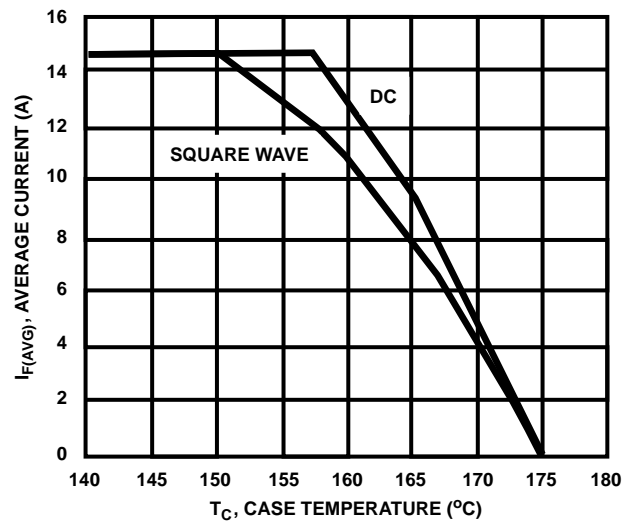
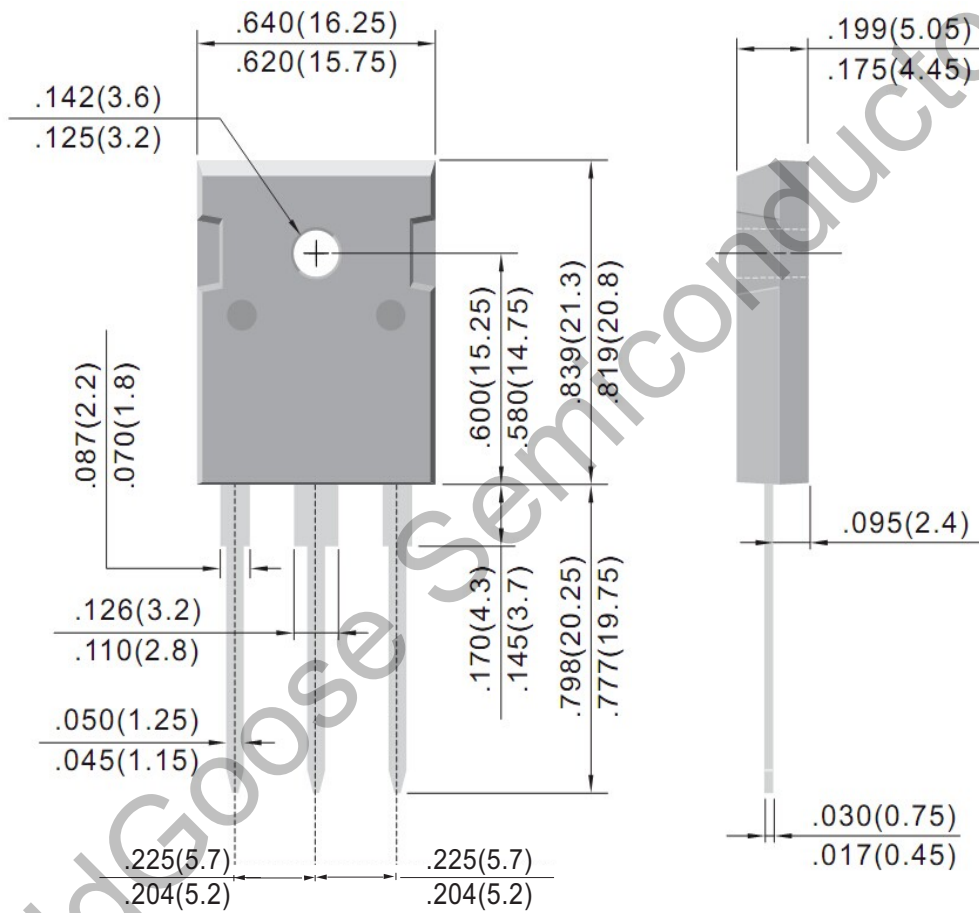


FIGURE 6. TYPICAL CURRENT DERATING CURVE vs CASE TEMPERATURE

Package Dimension

TO-247

Units: mm



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