MUR30xxPT Series



Super Fast Recovery Rectifiers

Reverse Voltage: 200 to 600 Volts Forward Current: 30.0 Ampere

RoHS Device Halogen Free



Features

- Glass passivated chip junctions
- High Speed recovery time for switching mode application
- High Forward Surge Capability
- Low Reverse Current
- Lead free in compliance with EU RoHS 2011/65/EU directive

Mechanical data

Leads: Solderable per mil-std-202, Method 208

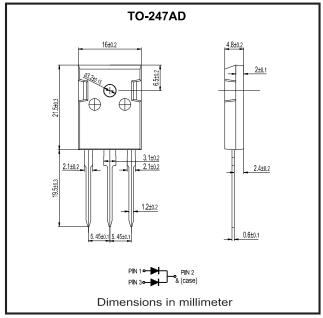
Polarity: as marked

Mounting torque: 5 in-lbs maximum

Terminals: Puretin plated

Weight: 5.85 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, derate by 20%

Parameter		Symbols	MUR3020PT	MUR3040PT	MUR3060PT	Units
Maximum repetitive peak reverse voltage		VRRM	200	400	600	٧
Maximum RMS voltage		VRMS	140	280	420	٧
Maximum DC blocking voltage		VDC	200	400	600	V
Average forward current	per device per diode	lf(AV)	30 15		А	
Max. forward surge current, 8.3ms single has sine-wave superimposed on rated load	alf	Ігѕм	250		А	
Max. forward voltage at 15A		VF	1.05	1.35	1.85	V
Maximum DC reverse current at rated DC blocking voltage	Ta = 25°C Ta =125°C	lr	5 250		μΑ	
Maximum reverse recovery time (Note 1)		trr	35		ns	
Typical thermal resistance (Note 2)		Rejc	1.5		°C/W	
Operating Junction temperature range		Tj	-55 ~ + 150		°C	
Storage temperature range		Tstg	-55 ~ +150		°C	

Notes: 1. Measured with $I_F = 0.5A$, $I_R = 1A$, $I_{rr} = 0.25A$.

2. P.C.B. mounted with 2.0" x 2.0" (5 x 5 cm) copper pad areas.

Company reserves the right to improve product design, functions and reliability without notice.



Rating and Characteristic Curves

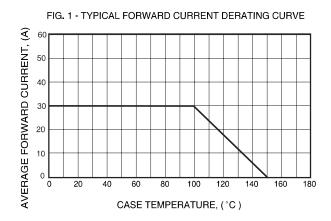


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

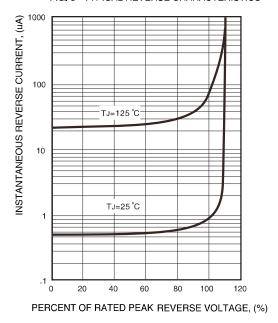
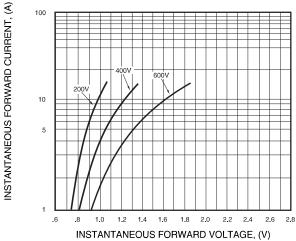


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





Marking Code

Part Number	Marking Code	
MUR30xxPT Series	MUR30xxPT	



LEC = Longmacro Logo xx = Product type marking code

Standard Packaging

	TUBE PACK			
Case Type	TUBE (pcs)	BOX (pcs)		
TO-247	25	500		