

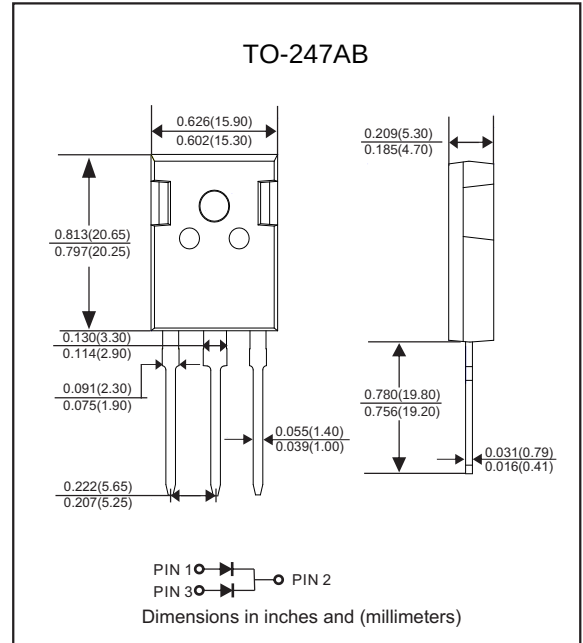
Features

- Glass passivated chip junctions
- High Speed recovery time for switching mode application
- High Forward Surge Capability
- Low Reverse Current
- Suffix "H" indicates Halogen-free parts

Mechanical data

- Case : TO-247AB
- Leads: Solderable per mil-std-202, Method 208
- Polarity : Polarity symbol marking on body

Package outline



Maximum ratings and Electrical Characteristics

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	per device	I_O			30	A
	per diode				15	
Forward surge current	8.3 ms single half sine-wave	I_{FSM}			400	A
Reverse current	$V_R = V_{RRM}$ $T_A = 25^\circ C$	I_R			5	μA
	$V_R = V_{RRM}$ $T_A = 125^\circ C$				250	
Typical reverse recovery time	$I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$	T_{RR}		35		nS
Thermal resistance	Junction to case	$R_{\theta JC}$		1.5		$^\circ C/W$
Storage temperature		T_{STG}	-55		+150	$^\circ C$

SYMBOLS	V_{RRM}^{*1} (V)	V_{RMS}^{*2} (V)	V_R^{*3} (V)	V_F^{*4} (V)	Operating temperature $T_{J,}$ ($^\circ C$)
MUR3060APT	600	420	600	1.85	-55 to +150

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage
 $I_F = 15 A$

Rating and characteristic curves

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

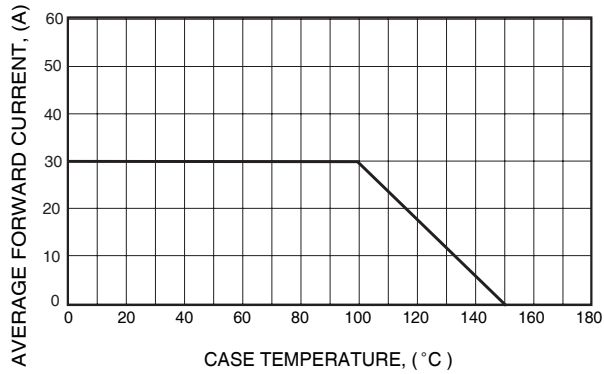


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

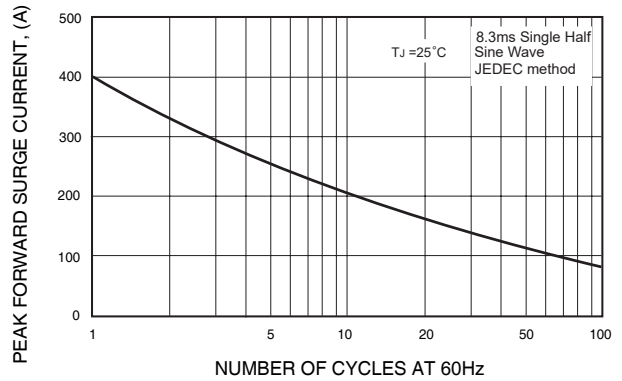


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

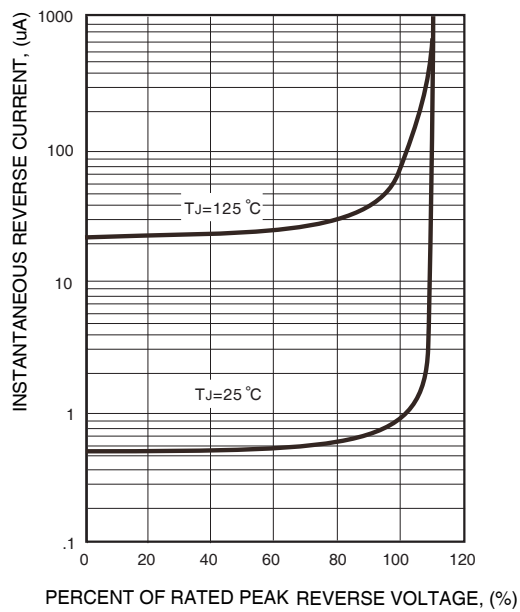
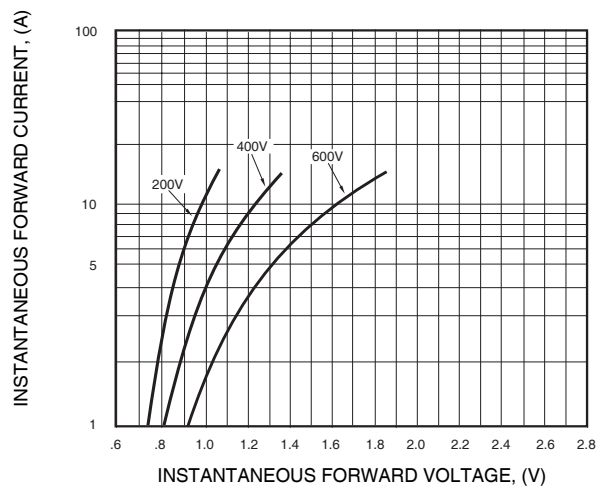
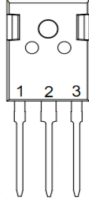
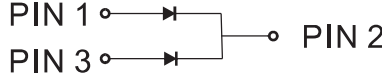


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



Pinning information

Pin	Simplified outline	Symbol
Pin1 anode Pin2 cathode Pin3 anode		

Marking

Type number	Marking code
MUR3060APT	MUR3060APT