

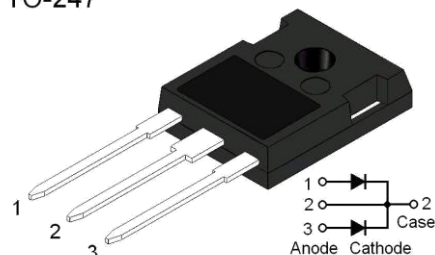
**Application**

- Snubber diode
- Switch power supply
- UPS
- Antiparalle Diode for high frequency switching devices

Features

- Ultrafast Recovery Time
- Low Recovery Loss
- Low Forward Voltage
- Low Leakage Current

TO-247

**Absolute Maximum Rating** (Ta=25°C)

Rating	Symbol	Value	Unit
Peak repetitive reverse voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	420	V
DC blocking voltage	V_R	600	V
Maximum aaverage forward rectified (Tc=125°C)	$I_{F(AV)}$	20	A
Non-repetitive peak forward surge current 8.3ms half sine wave	I_{FSM}	175	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C

Thermal characteristics (Per Leg)

Rating		Symbol	Value	Unit
Maximum thermal resistance	Junction to case	$R_{\theta JC}$	1.5	°C/W
	Junction to abient	$R_{\theta JA}$	40	

Electrical Characteristics (Per Leg unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 10\text{ A}$				1.7	V
Reverse current	I_R	$V_R = 600\text{ V}$	$T_j = 25^\circ\text{C}$			5	μA
			$T_j = 125^\circ\text{C}$			100	
Reverse recovery time	t_{rr}	$I_F = 0.5\text{ A}, I_R = 1\text{ A}, I_{rr} = 0.25\text{ A}$				70	ns
Junction capacitance	C_j	$V_R = 4\text{ V}, f = 1\text{ MHz}$				70	pF

Typical Characteristics

MUR2060PT

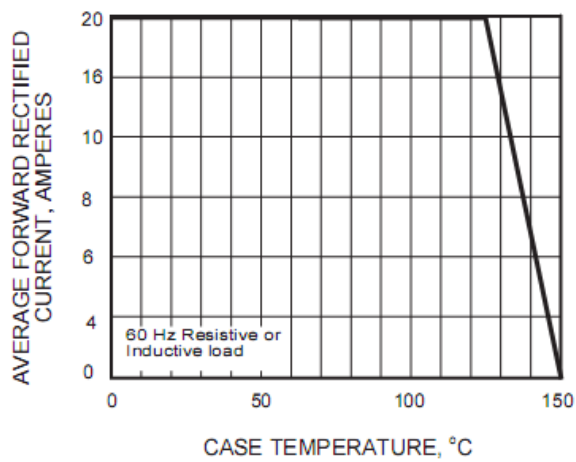


Figure 1. Forward Current derating Curve

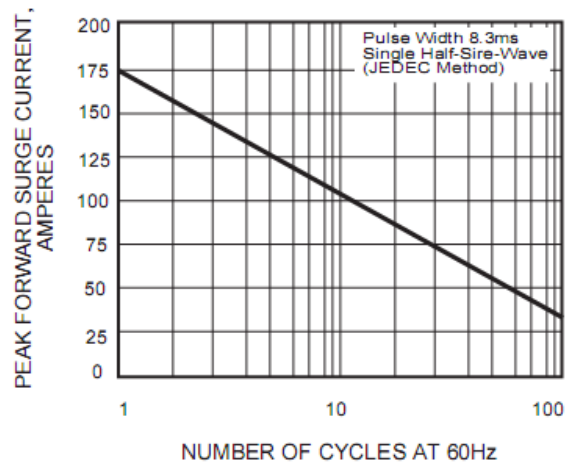


Figure 2. Peak Forward surge Current

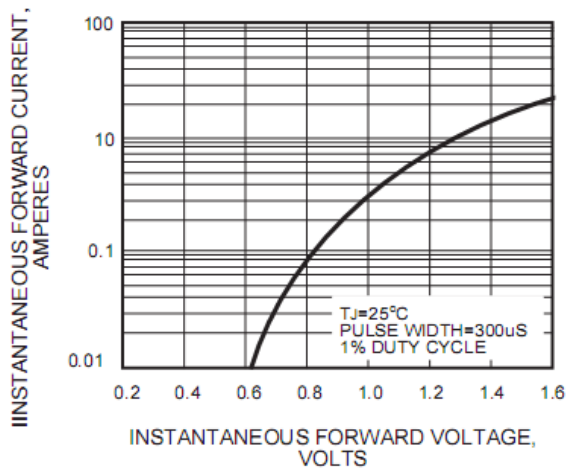


Figure 3. Forward Characteristics

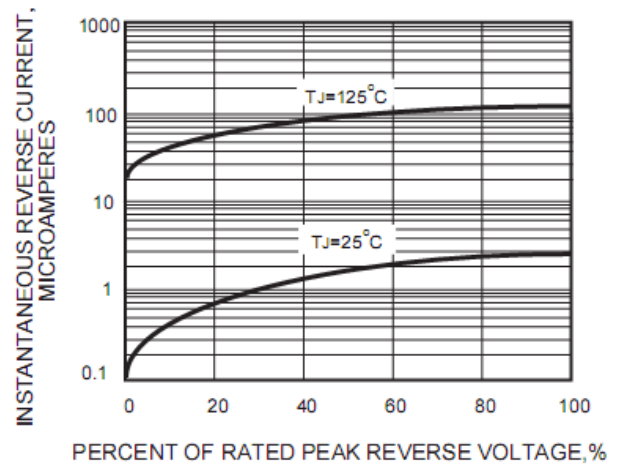


Figure 4. Reverse Characteristics

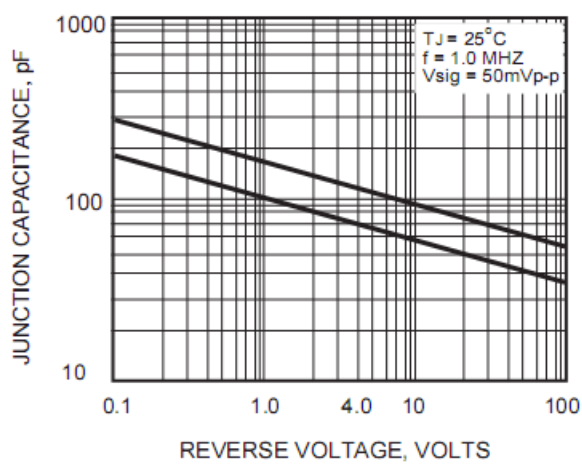


Figure 5. Junction capacitance

Package Dimensions

Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	4.90	5.10	0.193	0.201
A1	1.90	2.10	0.075	0.083
A2	2.20	2.40	0.087	0.094
b	1.07	1.33	0.042	0.052
b1	1.90	2.30	0.075	0.091
b2	2.90	3.30	0.114	0.130
c	0.55	0.68	0.022	0.027
D	15.75	16.05	0.620	0.632
D1	11.60	12.00	0.457	0.472
E	20.20	20.80	0.795	0.819
e	5.45 (BSC)		0.215 (BSC)	
e1	10.90 (BSC)		0.429 (BSC)	
F	6.05	6.25	0.238	0.246
L	20.10	20.40	0.791	0.803
L1	4.05	4.35	0.159	0.171
Φ	3.50	3.80	0.138	0.150