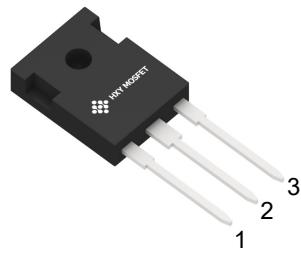


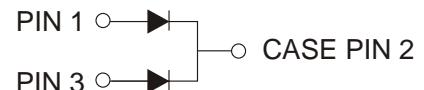


## Features

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



TO-247



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

Parameter	Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	
Maximum DC Blocking Voltage	V <sub>R(DC)</sub>	600	
Maximum Average Forward Current	I <sub>F(AV)</sub>	30	A
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	250	
Maximum Forward Voltage at 15A per leg	V <sub>F</sub>	2.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>j</sub> =25°C	0.2	mA
	T <sub>j</sub> =125°C	5	
Maximum Operating Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-35 ~ +150	
Typical Thermal Resistance	R <sub>θJC</sub>	1.5	°C/W



## Typical Characteristics

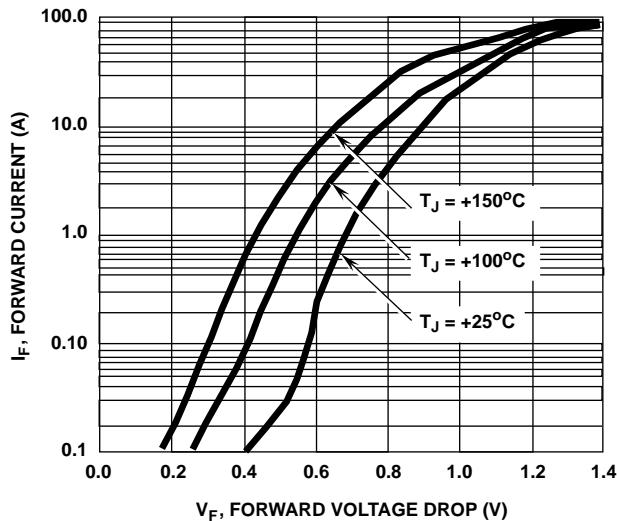


FIGURE 1. FORWARD VOLTAGE vs FORWARD CURRENT CHARACTERISTIC

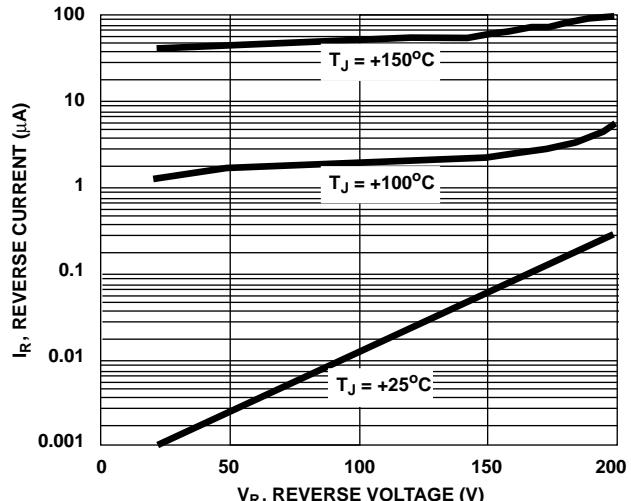


FIGURE 2. REVERSE VOLTAGE vs REVERSE CURRENT CHARACTERISTIC

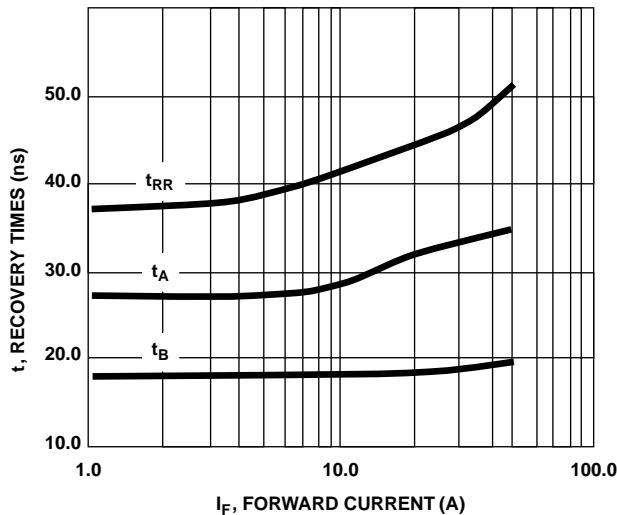


FIGURE 3. TYPICAL t<sub>RR</sub>, t<sub>A</sub> AND t<sub>B</sub> CURVES vs FORWARD CURRENT

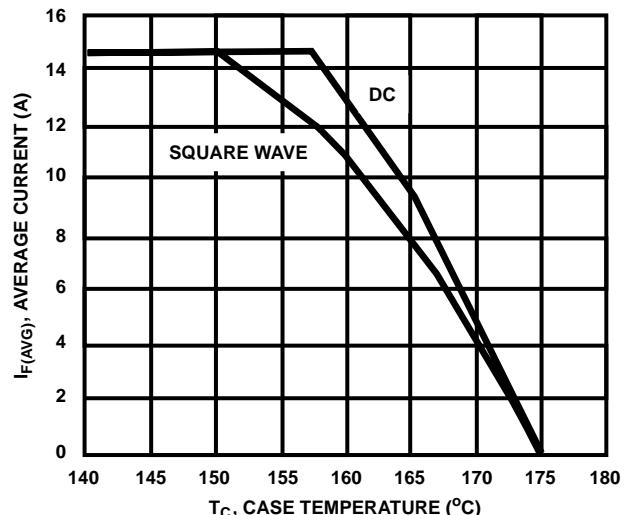
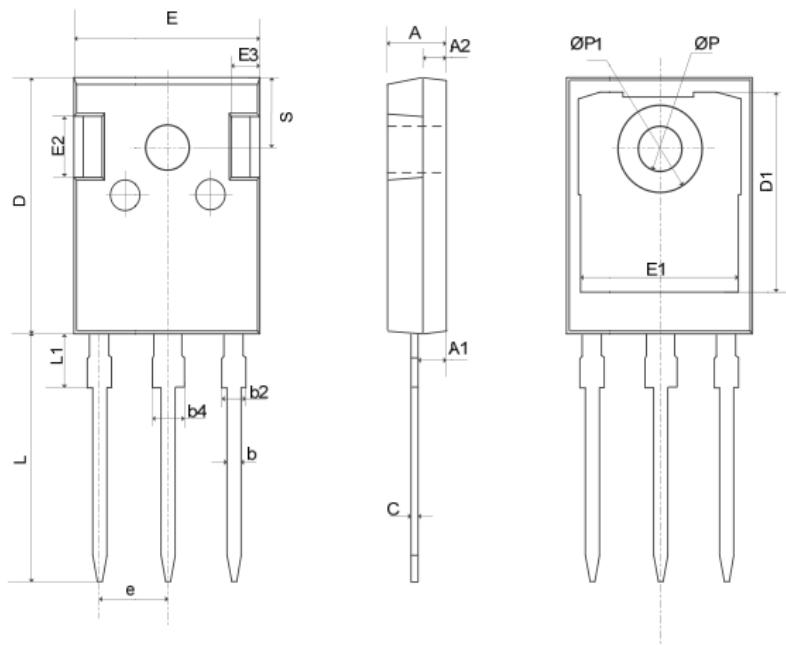


FIGURE 4. TYPICAL CURRENT DERATING CURVE vs CASE TEMPERATURE



## TO-247 Package Information

### COMMON DIMENSIONS



SYMBOL	MM	
	MIN	MAX
A	4.80	5.20
A1	2.21	2.61
A2	1.85	2.15
b	1.11	1.36
b2	1.91	2.21
b4	2.91	3.21
c	0.51	0.75
D	20.70	21.30
D1	16.25	16.85
E	15.50	16.10
E1	13.00	13.60
E2	4.80	5.20
E3	2.30	2.70
e	5.44BSC	
L	19.62	20.22
L1	—	4.30
ØP	3.40	3.80
ØP1	—	7.30
S	6.15BSC	



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