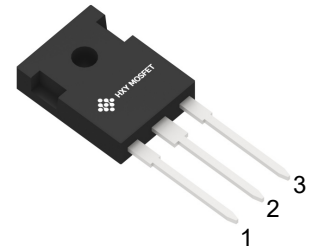


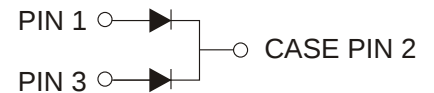


Features

- 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		VRRM	600	V
Maximum RMS Voltage		VRMS	420	
Maximum DC Blocking Voltage		VR(DC)	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	1.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Tj=25°C	IR	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

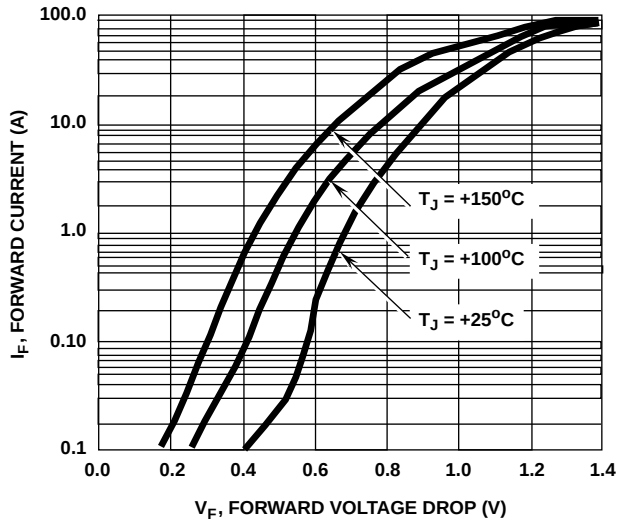


FIGURE 1. FORWARD VOLTAGE vs FORWARD CURRENT CHARACTERISTIC

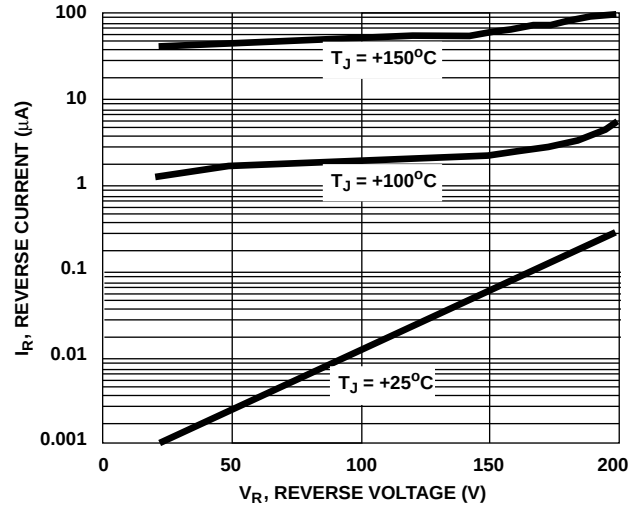


FIGURE 2. REVERSE VOLTAGE vs REVERSE CURRENT CHARACTERISTIC

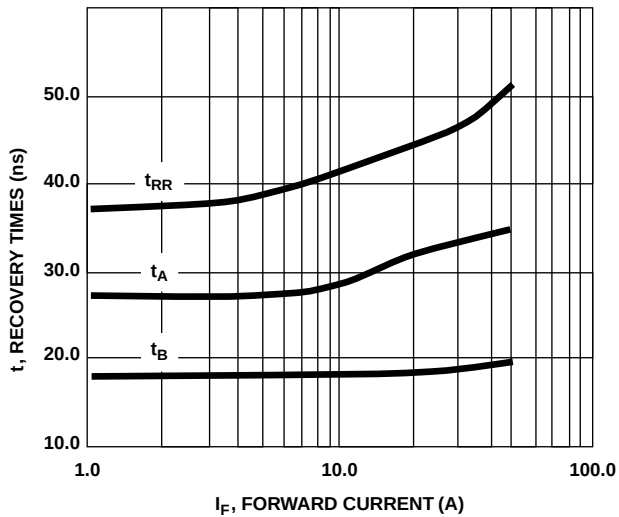


FIGURE 3. TYPICAL t_{RR} , t_A AND t_B CURVES vs FORWARD CURRENT

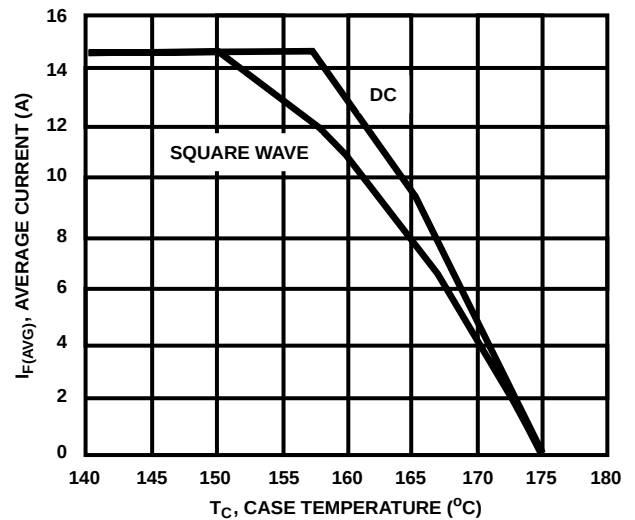
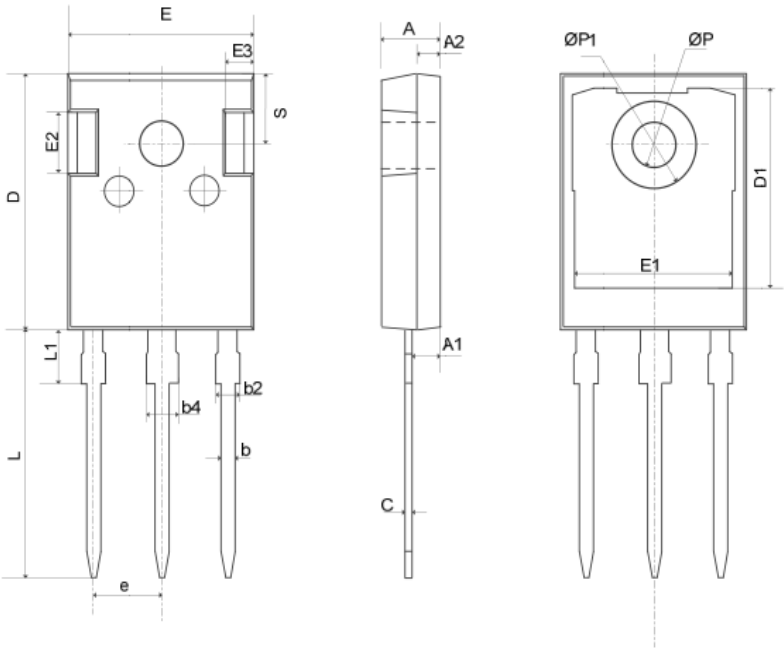


FIGURE 4. TYPICAL CURRENT DERATING CURVE vs CASE TEMPERATURE



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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