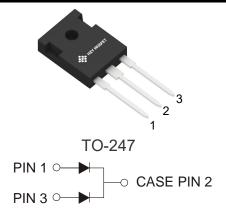


#### **Features**

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



### Maximum Ratings (Ta=25 ℃ unless otherwise noted)

Parameter		Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage		VRRM	200	
Maximum RMS Voltage		VRMS	140	V
Maximum DC Blocking Voltage		VR(DC)	200	
Maximum Average Forward Current		IF(AV)	30	А
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	0.9	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	20
Storage Temperature		T <sub>stg</sub>	-35 ~ +150	°C
Typical Thermal Resistance		Rec	1.5	°C/W

# **Typical Characteristics**

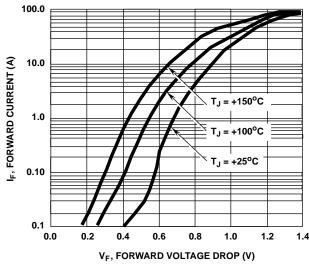


FIGURE 3. FORWARD VOLTAGE vs FORWARD CURRENT CHARACTERISTIC

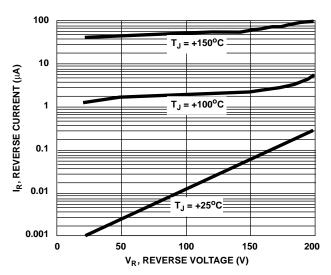


FIGURE 4. REVERSE VOLTAGE VS REVERSE CURRENT CHARACTERISTIC

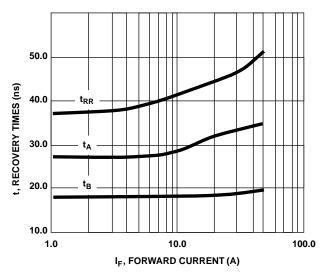


FIGURE 5. TYPICAL  $t_{RR}$ ,  $t_A$  AND  $t_B$  CURVES vs FORWARD CURRENT

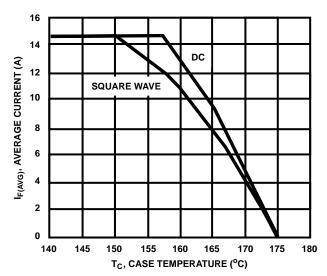
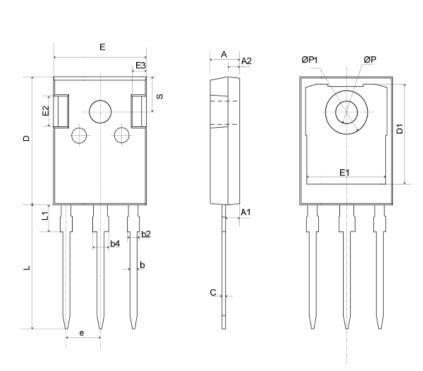


FIGURE 6. TYPICAL CURRENT DERATING CURVE vs CASE TEMPERATURE

# **TO-247 Package Information**



### **COMMON DIMENSIONS**

	MM			
SYMBOL	MIN	MAX		
А	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		
С	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		
е	5.44BSC			
L	19.62	20.22		
L1	_	4.30		
ØР	3.40	3.80		
ØP1	_	7.30		
s	6.15BSC			



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