

MBR40200PTS

REVERSE VOLTAGE 200 Volts SCHOTTKY BARRIER RECTIFIERS FORWARD CURRENT 40 Amperes FEATURES TO-247 • Guard Ring Die Construction for Transient Protection · Low Power Loss, High Effciency · High Surge Capability · Low Forward Voltage Drop · High Current Capability 1、ANODE **MECHANICAL DATA** 2、CATHODE · Case: TO-247 3, ANODE · Polarity: As Marked

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

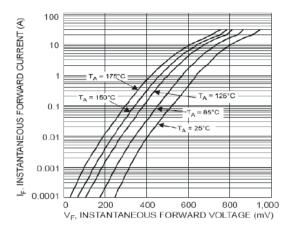
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Characteristics	Symbol	MBR40200PTS	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}		V	
Working Peak Reverse Voltage	V_{RWM}	200	V	
DC Blocking Voltage	V_R		V	
Maximum Instantaneous Forward Voltage I_F =20A T_C =25°C I_F =20A T_C =125°C	V _F	0.94 0.82	V	
Peak Reverse Current T _C =25°C at Rated DC Blocking Voltage T _C =125°C	I _R	0.1 6	mA	
Average Output Rectifie Current (per leg) (total device)	I _F	20 40	А	
Non-Repetitive Peak Surge Current Surge applied at rated load conditions halfwave, single phase, 60H _z	I _{FSM}	350	А	
Maximum Thermal Resistance	R _{eJC}	1.5	°C/W	
iwaximum memai kesisiance	$R_{\theta JA}$	60		
Junction and StorageTemperature Range	T _{J.} T _{STG}	-65 to +150	°C	

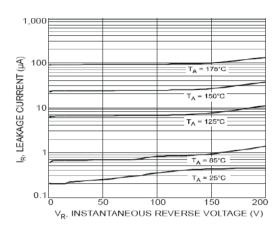
	R _θ JA	60	
Junction and StorageTemperature Range	T _{J,} T _{STG}	T _{J,} T _{STG} -65 to +150	



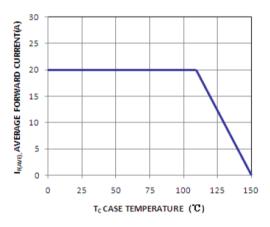
Rating and Characteristic Curves



Typical Forward Voltage Per Diode

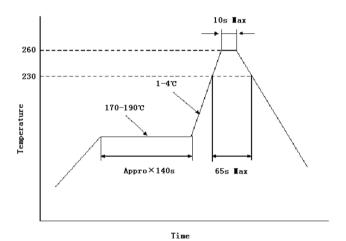


Typical Reverse Current Per Diode



Average Forward Forward Current vs.

Case Temperature Per Diode



Reflow Soldering Temperature Profile

MBR40200PTS

TO-247 MECHANICAL DATA

UNIT: mm

SYMBOL	MIN	NOM	MAX	SYMBOL	MIN	NOM	MAX
A	4. 60		5. 15	A1	1. 30		1.60
b	2.86		3. 26	b1	1. 86		2. 26
b2		1. 20		С		0.50	
D	19. 00		21. 00	E	15. 45		15. 75
E1	12. 00		13. 06	е		5. 45	
L	14. 00		14. 60	L1	5. 20		5. 88
L2	24. 00		24. 40	L3	10.00		10. 60
Р		3. 50		Q	2. 30		2. 70

