Typical applications are in switching power supplies, converters, automotive, freewheeling diodes, and reverse battery protection.

: Tin plated leads, solderable per J-STD-002 and JESD22-B102

- : As marked

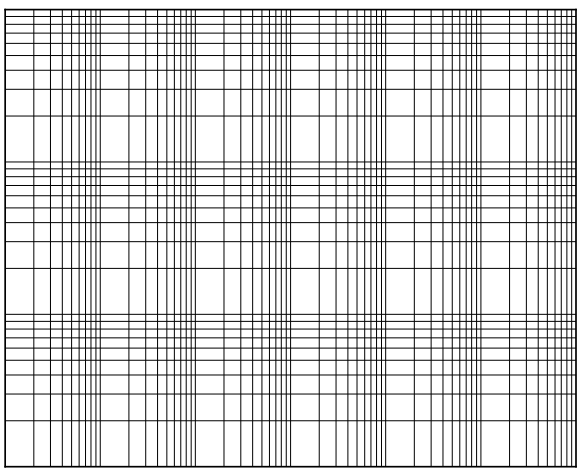
■ (T_a=25 Unless otherwise specified

Device marking code			MBR6200P5C
Repetitive peak reverse voltage	V_{RRM}	V	200
Average Rectified Output Current @60Hz -sine wave, T_C=155	I_O	A	6
Forward Surge Current (Non-repetitive) @60Hz 8.3ms half-sine wave,1 cycle, T_a=25	I_{FSM}	A	80

■ T_a=25 Unless otherwise specified

Instantaneou p φ ⊫3A ∓25 ⊦ 0.82		0.9				
			I_F=3A	T_J=125	0.68	0.75
Typical junction capacitance per diode	C_J	pF	V_R=4V, f=1 MHz		60	-
Instantaneous reverse current per diode	I_R	uA	V_R=200V	T_J=25	-	1
				T_J=125	-	150

v&KDUDFWHU7LSVWFLDFO



(T_a=25 Unless otherwise specified)

Typical thermal resistance per diode	$R_{\theta J-A}$	/W	55(1)
	$R_{\theta J-C}$	/W	3.5(2)

Note:
(1)Thermal resistance between junction and ambient mounted on P.C.B with 25.4mm*25.4mm copper pad areas.
(2)Thermal resistance between junction and case.

■ (Example)

MBR6200P5CQ	Approximate 0.105	5000	10000	100000	13“ reel

■

Note:
1. All marking is at middle of the product body
2. All marking is in laser printing
3. XXXXXX is marking code, like MBR6200P5CQ marking code is MBR6200P5C
4. Body color: Black
5. YYWW is date code, “YY” is year. “WW” is week.
For instance:
The 17th week of 2022, date code is 2217
The 17th week of 2023, date code is 2317

■ **Suggested Pad Layout**

Note: