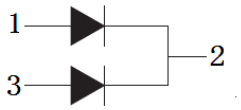
MBR20100

PUOLOP 迪浦

SCHOTTKY BARRIER DIODE

APPLICATIONS

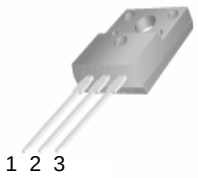
- High frequency switch power supply
- Free wheeling diodes, polarity protection applications



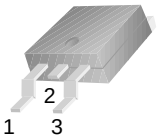
FEATURES

- Common cathode structure
- Low power loss, high efficiency
- High Operating Junction Temperature
- Guard ring for overvoltage protection，High reliability
- RoHS product

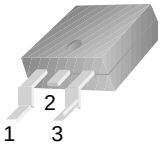
TO-220



TO-220F



TO-252



TO-263

ORDER INFORMATION

Product	Package	Pin Assignment			Packing
		1	2	3	
MBR20100CT	TO-220	A	K	A	Tube
MBR20100FCT	TO-220F	A	K	A	Tube
MBR20100YCT	TO-263	A	K	A	Tape Reel
MBR20100DCT	TO-252	A	K	A	Tape Reel

ABSOLUTE RATINGS (Tc=25℃)

Parameter			Symbol	Value	Unit
Repetitive peak reverse voltage			V_{RRM}	100	V
Maximum DC blocking voltage			V_{DC}	100	V
Average forward current	T_C=150℃ (TO-220/263/ TO-252) T_C=125℃ (TO-220F)	per device	$I_{F(AV)}$	20	A
		per diode		10	
Surge non repetitive forward current 8.3 ms single half-sine-wave (JEDEC Method)			I_{FSM}	200	A
Maximum junction temperature			T_j	150	℃
Storage temperature range			T_{STG}	-40~+150	℃

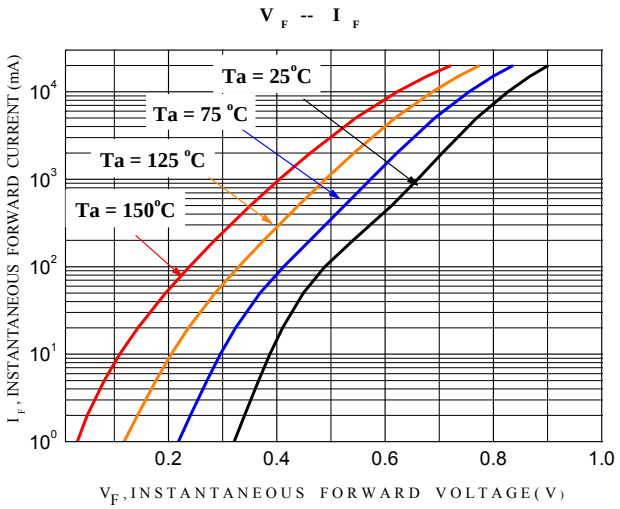
ELECTRICAL CHARACTERISTICS

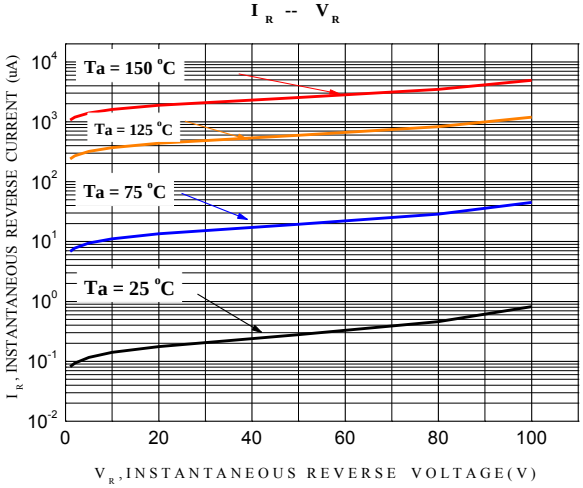
Parameter	Tests conditions		Value(min)	Value(typ)	Value(max)	Unit
I_R	Tj =25℃	V_R=V_{RRM}			10	μA
V_F	Tj =25℃	I_F=10A		0.82	0.85	V

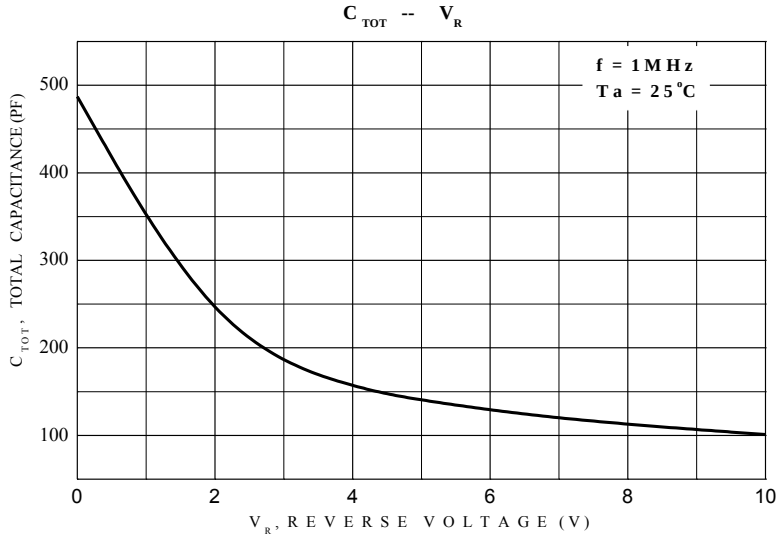
THERMAL CHARACTERISTICS

Parameter		Symbol	Value(min)	Value(max)	Unit
Thermal resistance from junction to case	TO-220	$R_{th(j-c)}$		2.0	℃/W
	TO-263			2.0	
	TO-252			3.0	
	TO-220F			4.0	

ELECTRICAL CHARACTERISTICS (curves)







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