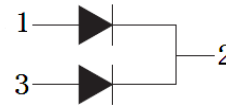


SCHOTTKY BARRIER DIODE

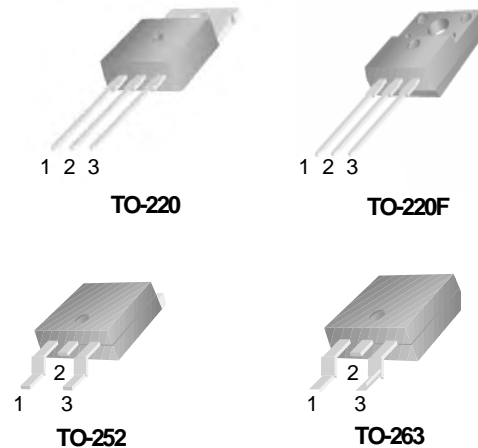
APPLICATIONS

- 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



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°C)

Parameter		Symbol	Value	Unit
Repetitive peak reverse voltage		V_{RRM}	100	V
Maximum DC blocking voltage		V_{DC}	100	V
Average forward current	$T_C=150^{\circ}C$ (TO-220/263/ TO-252)	$I_{F(AV)}$	20	A
	$T_C=125^{\circ}C$ (TO-220F)		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	°C
Storage temperature range		T_{STG}	-40~+150	°C

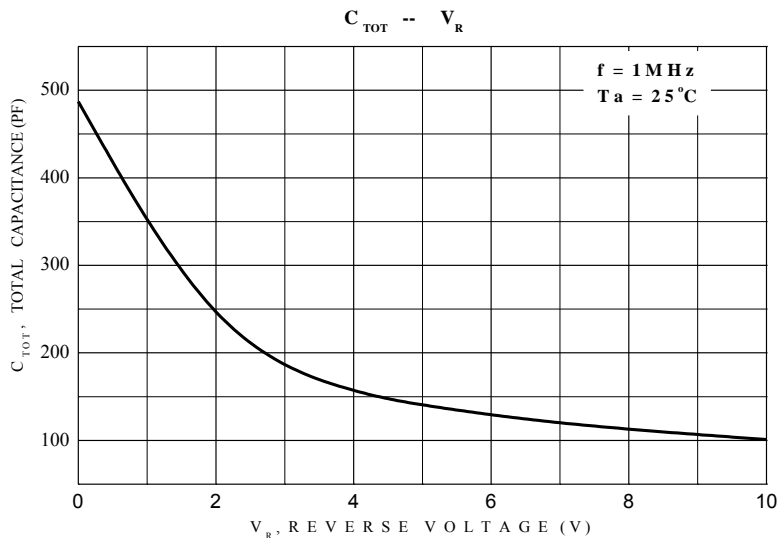
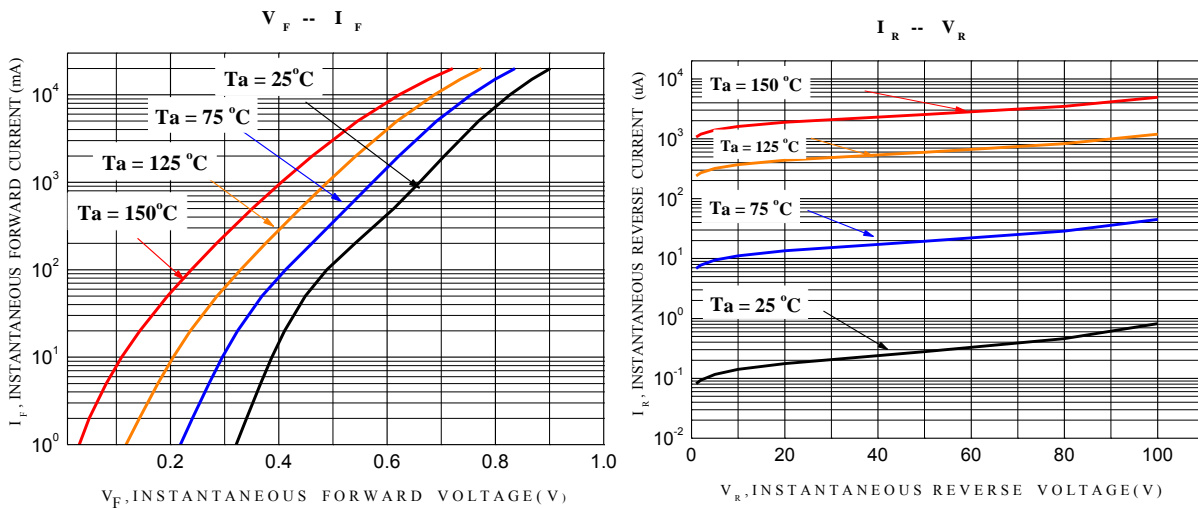
ELECTRICAL CHARACTERISTICS

Parameter	Tests conditions		Value(min)	Value(typ)	Value(max)	Unit
I_R	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$			10	μA
V_F	$T_j = 25^\circ\text{C}$	$I_F = 10\text{A}$		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	$^\circ\text{C/W}$
	TO-263			2.0	
	TO-252			3.0	
	TO-220F			4.0	

ELECTRICAL CHARACTERISTICS (curves)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Schottky Diodes & Rectifiers](#) category:

Click to view products by [PUOLOP](#) manufacturer:

Other Similar products are found below :

[MA4E2039](#) [MMBD301M3T5G](#) [RB160M-50TR](#) [D83C](#) [BAS16E6433HTMA1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#)
[NRVBAF360T3G](#) [NSR05F40QNXT5G](#) [NTE555](#) [JANS1N6640](#) [SS3003CH-TL-E](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM](#) [MBRA140TRPBF](#)
[MBRB30H30CT-1G](#) [BAT 15-04R E6152](#) [JANTX1N5712-1](#) [DMJ3940-000](#) [SB007-03C-TB-E](#) [NRVBB20100CTT4G](#) [NRVBM120LT1G](#)
[NTSB30U100CT-1G](#) [CRG04\(T5L,TEMQ\)](#) [ACDBA1100LR-HF](#) [ACDBA1200-HF](#) [ACDBA240-HF](#) [ACDBA3100-HF](#) [CDBQC0530L-HF](#)
[ACDBA260LR-HF](#) [ACDBA1100-HF](#) [10BQ015-M3/5BT](#) [NRVBM120ET1G](#) [VSSB410S-M3/5BT](#) [1N5819T-G](#) [PDS1040Q-13](#) [B160BQ-13-F](#)
[SDM05U20CSP-7](#) [BAS 70-07 E6433](#) [B140S1F-7](#) [HSM560Je3/TR13](#) [DDB2265-000](#) [ZHCS506QTA](#) [HSM190Je3/TR13](#) [B330AF-13](#)
[ACDBUC0230-HF](#) [SDM1U100S1F-7](#) [MBR10200CTF-G1](#) [CDLL5712](#) [DMF2822-000](#)