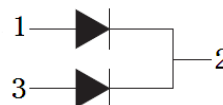


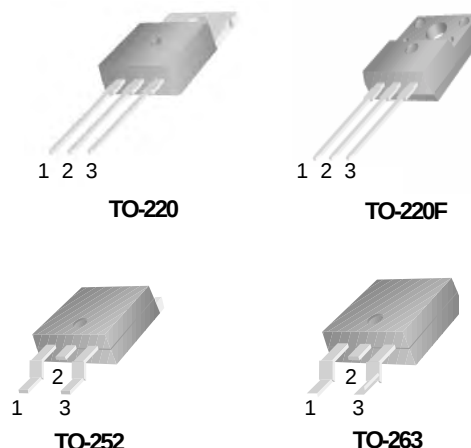
APPLICATIONS

- 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	
MBR1045CT	TO-220	A	K	A	Tube
MBR1045FCT	TO-220F	A	K	A	Tube
MBR1045YCT	TO-263	A	K	A	Tape Reel
MBR1045DCT	TO-252	A	K	A	Tape Reel

ABSOLUTE RATINGS (T_c=25°C)

Parameter			Symbol	Value	Unit
Repetitive peak reverse voltage			V _{RRM}	45	V
Maximum DC blocking voltage			V _{DC}	45	V
Average forward current	T _C =150℃ (TO-220/263/ TO-252)	per device	I _{F(AV)}	10	A
	T _C =125℃ (TO-220F)	per diode		5	
Surge non repetitive forward current 8.3 ms single half-sine-wave (JEDEC Method)			I _{FSM}	160	A
Maximum junction temperature			T _j	150	℃
Storage temperature range			T _{STG}	-40~+150	℃

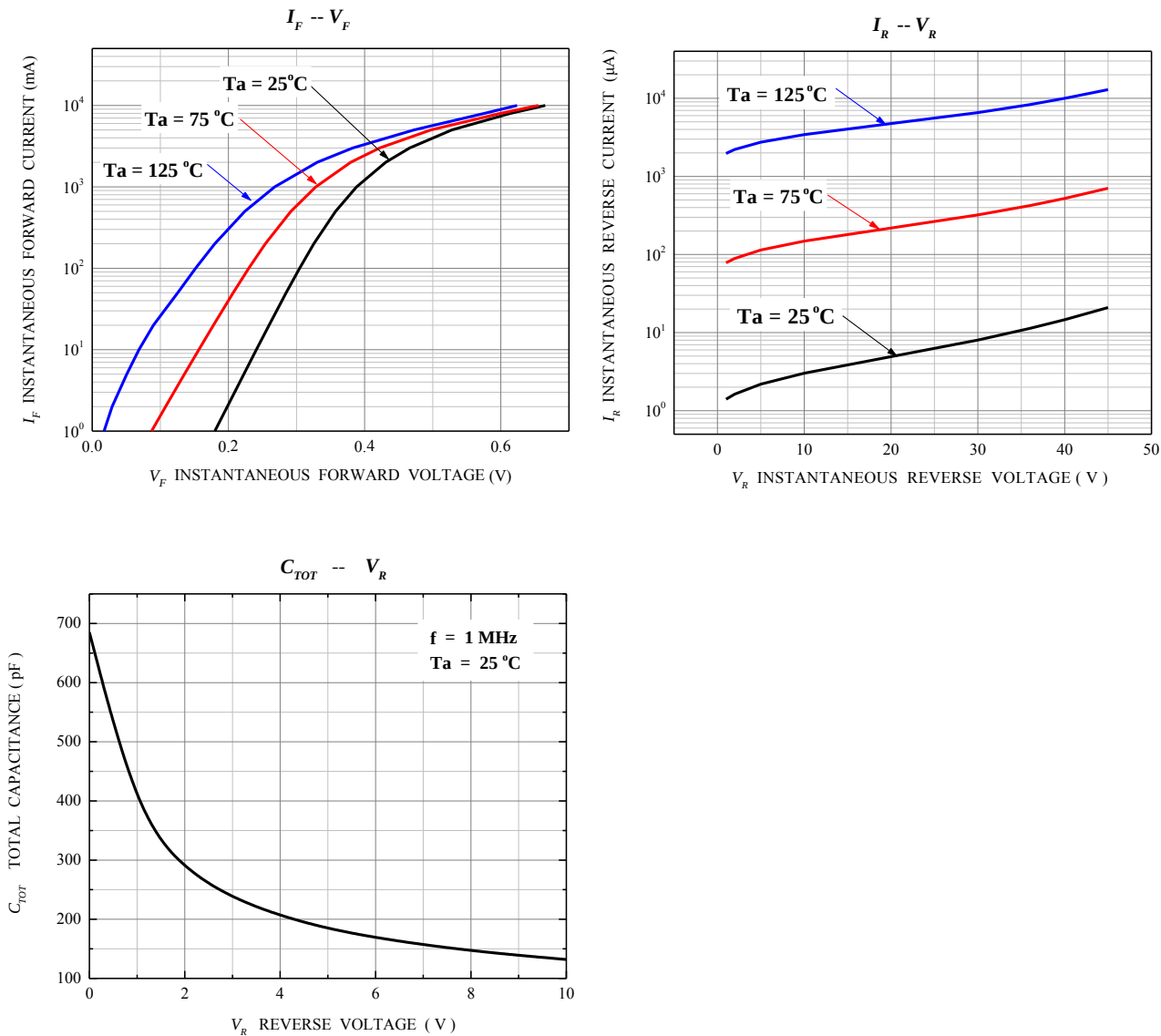
ELECTRICAL CHARACTERISTICS

Parameter	Tests conditions		Value(min)	Value(typ)	Value(max)	Unit
I_R	$T_j = 25^{\circ}\text{C}$	$V_R = V_{RRM}$			60	μA
V_F	$T_j = 25^{\circ}\text{C}$	$I_F = 5\text{A}$		0.53	0.60	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)



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