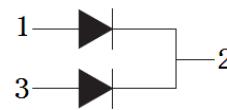
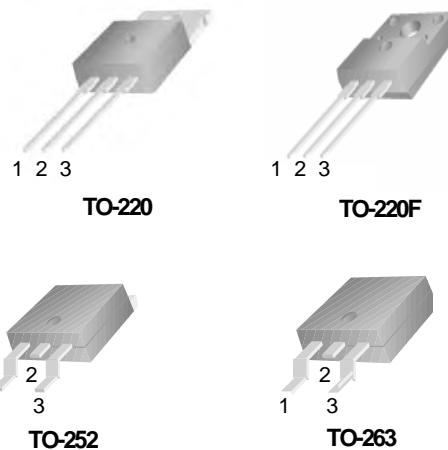


APPLICATIONS

- 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	
MBR10150CT	TO-220	A	K	A	Tube
MBR10150FCT	TO-220F	A	K	A	Tube
MBR10150YCT	TO-263	A	K	A	Tape Reel
MBR10150DCT	TO-252	A	K	A	Tape Reel

ABSOLUTE RATINGS (Tc=25°C)

Parameter			Symbol	Value	Unit		
Repetitive peak reverse voltage			V _{RRM}	150	V		
Maximum DC blocking voltage			V _{DC}	150	V		
Average forward current T _c =150°C (TO-220/263/ TO-252) T _c =125°C (TO-220F)	per device		I _{F(AV)}	10	A		
				5			
Surge non repetitive forward current 8.3 ms single half-sine-wave (JEDEC Method)			I _{FSM}	168	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	$T_j = 25^\circ C$	$V_R = V_{RRM}$			10	μA
V_F	$T_j = 25^\circ C$	$I_F = 5A$		0.81	0.90	V

THERMAL CHARACTERISTICS

Parameter	Symbol	Value(min)	Value(max)	Unit
Thermal resistance from junction to case	$R_{th(j-c)}$	2.0	2.0	$^\circ C/W$
			2.0	
			3.0	
			4.0	

ELECTRICAL CHARACTERISTICS (curves)

