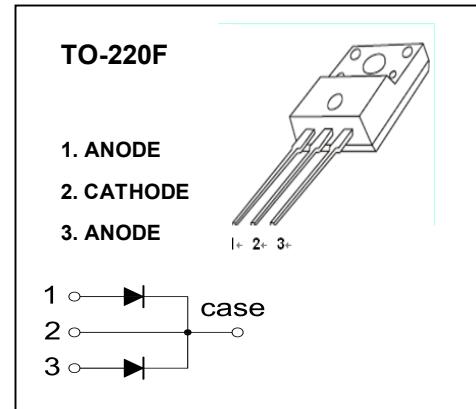


TO-220F Plastic-Encapsulate Diodes

MBR2060FCT SCHOTTKY BARRIER RECTIFIER

FEATURES

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Peak repetitive reverse voltage		
V_{RWM}	Working peak reverse voltage	60	V
V_R	DC blocking voltage		
$V_{R(RMS)}$	RMS reverse voltage	42	V
I_o	Average rectified output current	20	A
I_{FSM}	Non-Repetitive peak forward surge current 8.3ms half sine wave	150	A
P_D	Power dissipation	2	W
$R_{\theta JA}$	Thermal resistance from junction to ambient	50	°C/W
T_j	Junction temperature	125	°C
T_{stg}	Storage temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=0.1\text{mA}$	60			V
Reverse current	I_R	$V_R=60\text{V}$			0.1	mA
Forward voltage	V_F	$I_F=10\text{A}$			0.8	V
Typical total capacitance	C_{tot}^*	$V_R=4\text{V}, f=1\text{MHz}$		650		pF

*Pulse test: pulse width $\leq 300\mu\text{s}$, duty cycle $\leq 2.0\%$.