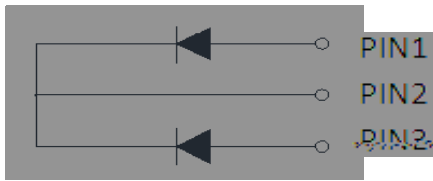
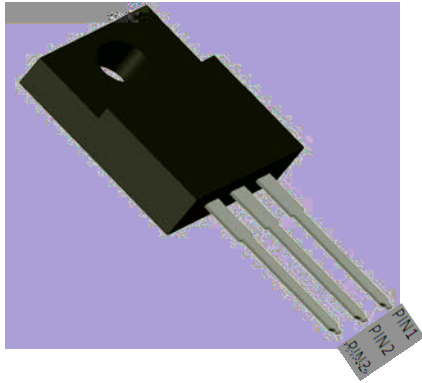


Schottky Diodes



Features

- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106
- I_{FS} 1000mA

Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Mechanical Data

- **Package:** ITO-220AB
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked

■Maximum Ratings (T_j=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBRL2060FCT
Device marking code			MBRL2060FCT

Repetitive Peak Reverse Voltage	V _{RRM}	V	60
		@1ms square wave, 1 time, T _j =25 °C	

Current Squared Time @1ms≤t≤8.3ms T _j =25 °C	I ² t	A ² s	94
Typical junction capacitance @ 1MHz and Applied Reverse Voltage of 4.0 V.D.C.	C _j	pF	850
Storage Temperature	T _{stg}		-55 ~ +150
Junction Temperature	T _j		-55 ~ +150
Dielectric strength @ terminals to case, AC 1 minute	V _{dis}	KV	2.0
Mounting torque @recommend torque 5kg cm	Tor	kg cm	8



MBRL2060FCT

■Electrical Characteristics $T_j=25$ Unless otherwise specified

PARAMETER	SYMBOL			Min	Typ	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=10.0A$ $T_j=25$	0.5	0.57	0.60
			$I_{FM}=10.0A$ $T_j=125$	-	0.54	0.58
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	μA	$V_{RM}=V_{RRM}$ $T_j=25$	-	-	100
	I_{RRM2}	mA	$V_{RM}=V_{RRM}$ $T_j=125$	-	-	20

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS

■Thermal Characteristics $T_j=25$ Unless otherwise specified

PARAMETER



■Outline Dimensions

ITO-220AB		
Dim	Min	Max
A	9.8	10.2
B	2.25	2.75
C	2.95	3.45
D	14.75	15.25
E	3.05	3.95
F	0.45	0.75
G	0.45	0.75
H		



Disclaimer

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The product listed herei