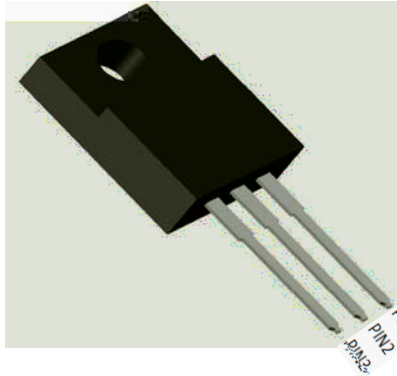


Schottky Diodes



Features

- High frequency operation
enhanced mechanical strength and moisture resistance
- Guard ring for enhanced rugged rating, RoHS-compliant

- **Terminals:** Tin plated leads, solderable Device marking code MBRL101

PARAMETER	SYMBOL	UNIT	VALUE
Repetitive Peak Reverse Voltage	VRRM	V	100
Average Rectified Output Current @60Hz sine wave, R-load, $T_a=25^\circ\text{C}$	IO	A	10
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25^\circ\text{C}$	IFSM	A	100
Current Squared Time @1ms≤t<8.3ms $T_j=25^\circ\text{C}$	I^2t	A ² s	41
Storage Temperature	Tstg	°C	-55 ~ +150
Junction Temperature	Tj	°C	-55 ~ +150

■Electrical Characteristics $T_a=25^\circ\text{C}$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRL10100FCT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=5.0A	0.72
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	VRM=VRRM $T_a=25^\circ\text{C}$	0.1
	I _{RRM2}		VRM=VRRM $T_a=100^\circ\text{C}$	20

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

Note2:Pulse test:pulse width 40mS



MBRL10100FCT

■ Thermal Characteristics $T_a=25^{\circ}\text{C}$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MBRL10100FCT
Thermal Resistance	Between junction and case	$R_{\theta\text{J-C}}$	$^{\circ}\text{C/W}$	4.0

■ Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRL10100FCT	A M				



■Outline Dimensions

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