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 rugged rating, RoHS-compliant

- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity**: As marked

■Maximum Ratings (T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MBRL30200FCT
Device marking code			MBRL30200FCT
Repetitive Peak Reverse Voltage	V_{RRM}	V	200
Average Rectified Output Current @60Hz sine wave, R-load, Ta FIG 1	I_O	A	30
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T_a=25	I_{FSM}	A	220
Current Squared Time @1ms≤t≤8.3ms Tj=25	I^2t	A^2s	200
Storage Temperature	Tstg		-55 ~ +150
Junction Temperature	T_j		

Maximum instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=15.0A	0.88
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	V_{RM}=V_{RRM} T_a=25	0.1
	I_{RRM2}		V_{RM}=V_{RRM} T_a=100	20

Note1:Pulse test:300uS pulse widh,1% duty y ` PNote1 Pulse test:0ulse w

■Thermal Characteristics T_a=25 Unless otherwise specified

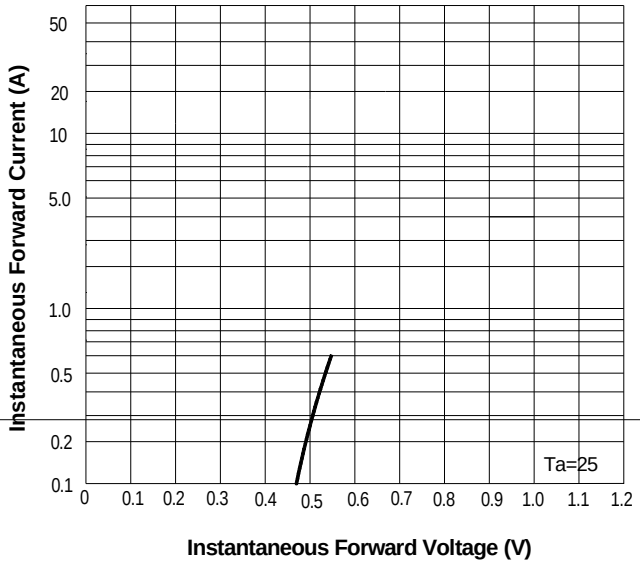
PARAMETER		SYMBOL	UNIT	MBRL30200FCT
Thermal Resistance	Between junction and case	$R_{\theta J-C}$	/W	4.0

■Ordering Information (Example)

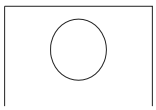
PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRL30200FCT	Approximate 1.6	50	1000	5000	Tube

■Characteristics (Typical)

FIG3: Forward Voltage



v2XWOLQH 'LPHQVLRQV



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