

MMBD301 SCHOTTKY BARRIER DIODE

FEATURES

- Small Surface Mounting Type
- High Reliability



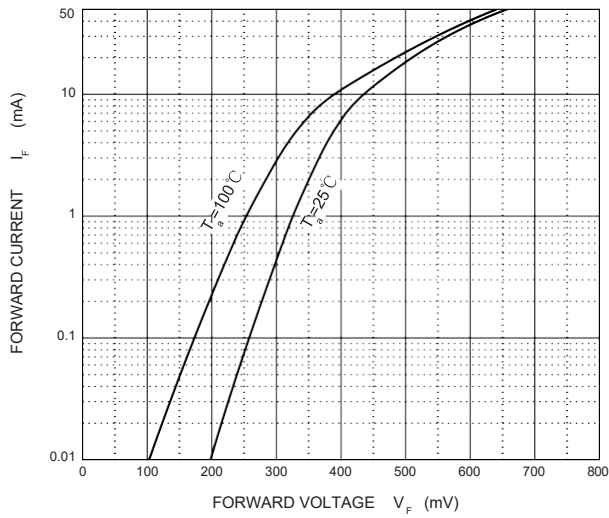
MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Maximum Repetitive Reverse Voltage	30	V
I_O	Forward Current	50	mA
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500	$^{\circ}\text{C}/\text{W}$
T_j	Operating Junction Temperature Range	-40 ~ +125	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

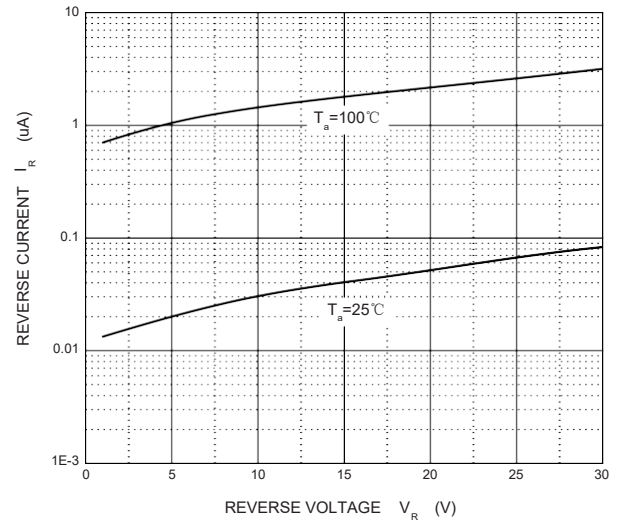
ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	30			V
Reverse current	I_R	$V_R=25\text{V}$			200	nA
Forward voltage	V_F	$I_F=1\text{mA}$			0.45	V
		$I_F=10\text{mA}$			0.6	
Total capacitance	C_{tot}	$V_R=15\text{V}, f=1\text{MHz}$			1.5	pF

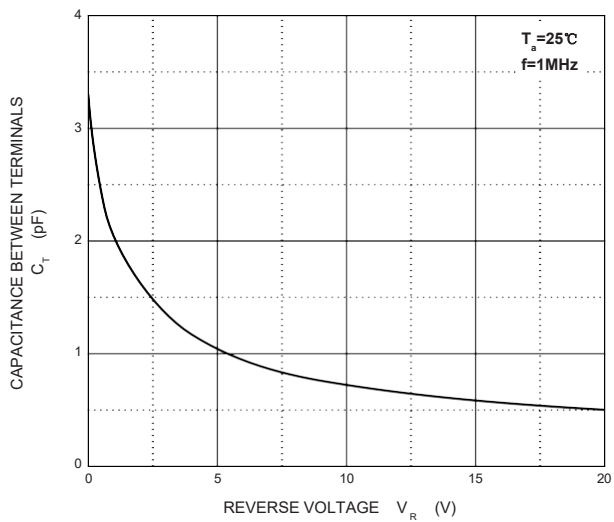
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

