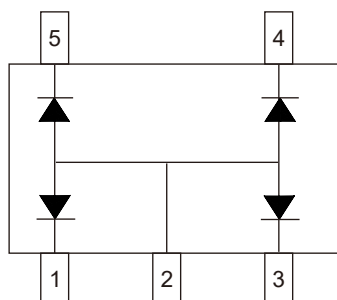


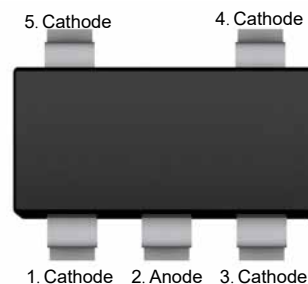
Features

- High Speed switching

Equivalent Circuit



SOT-23-5



Marking Code : P187

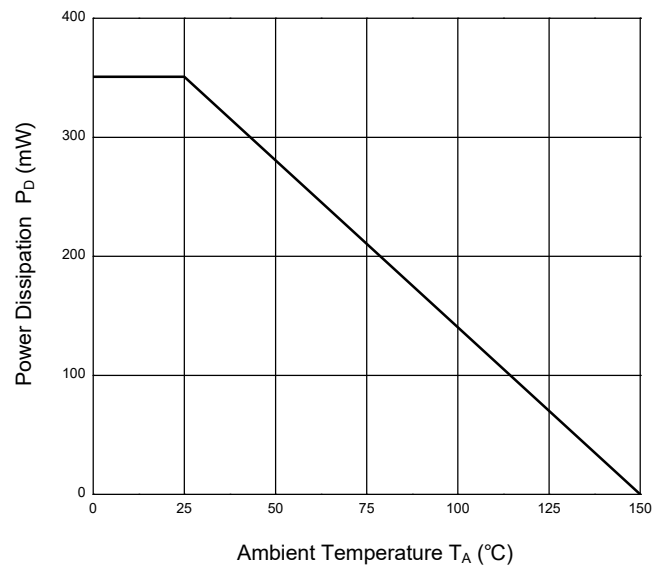
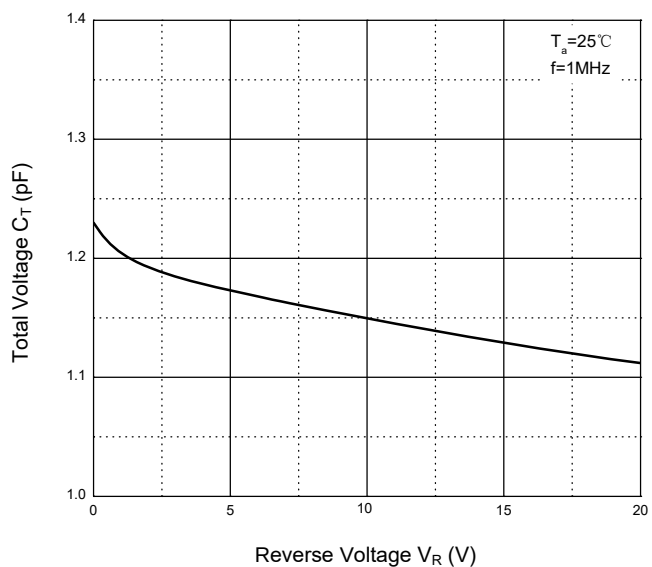
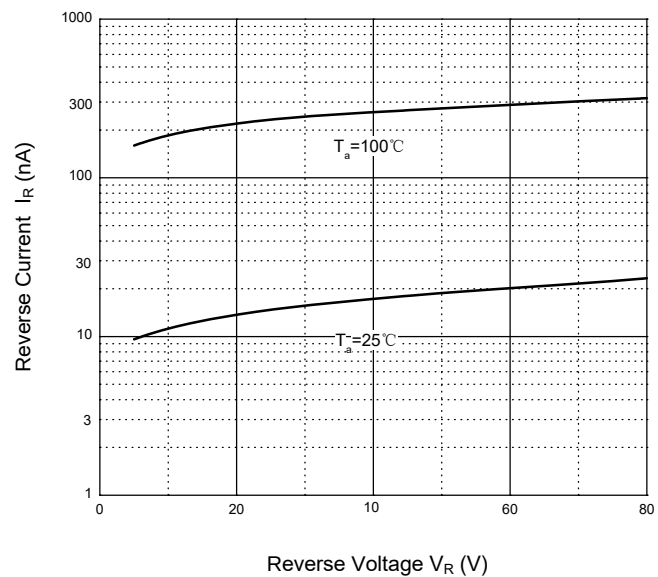
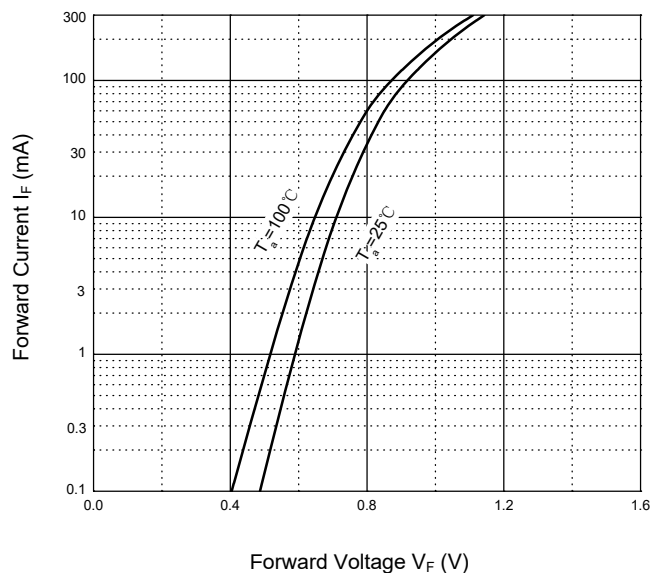
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	80	V
Reverse Voltage	V_R	80	V
Average Rectified Forward Current	$I_{F(AV)}$	100	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	1 4	A
		at $t = 1\text{s}$ at $t = 1\mu\text{s}$	
Maximum Power Dissipation	P_D	350	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics ($T_A=25^\circ\text{C}$)

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage	V_F	--	0.7	V
at $I_F = 5\text{ mA}$		--	0.85	
at $I_F = 10\text{ mA}$				
Reverse Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	$V_{(BR)R}$	80	--	
Reverse Current at $V_R = 80\text{ V}$	I_R	--	1	μA
Typical Junction Capacitance	C_j	--	3	pF
at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$				
Maximum Reverse Recovery Time	T_{rr}	--	4	nS
at $I_F = I_R = 10\text{ mA}$, $I_{rr} = 0.1 \times I_R$				

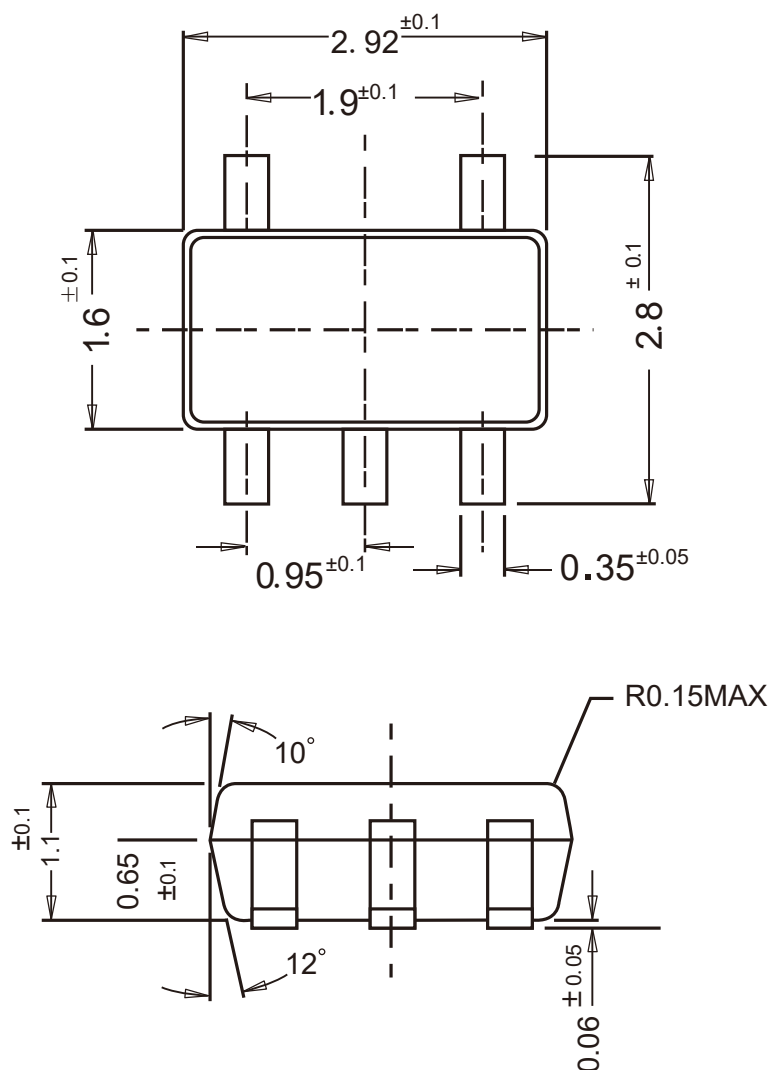
Typical Characteristic Curves



Package Outline

SOT-23-5

Dimensions in mm



Ordering Information

Device	Package	Shipping
MMBP187SE	SOT-23-5	3,000PCS/Reel&7inches