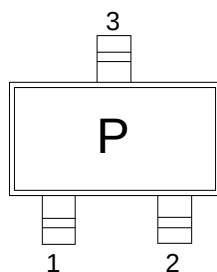


Features

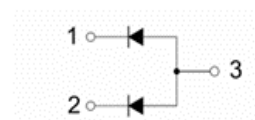
- Ultra Small Surface Mounting Type
- Ultra High Speed Switching Applications
- High Reliability



Marking and pin assignment



SOT-723 top view



Schematic diagram



Halogen-Free

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

Symbol	Parameter	Limit	Unit
V_{RRM}	Peak Repetitive Peak Reverse Voltage	80	V
V_{RWM}	Working Peak Reverse Voltage	80	V
$V_{R(RMS)}$	RMS Reverse Voltage	56	V
I_{FM}	Forward Continuous Current	300	mA
I_O	Average Rectified Output Current	100	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	4	A
P_D	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	833	$^{\circ}\text{C/W}$
T_J, T_{STG}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

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

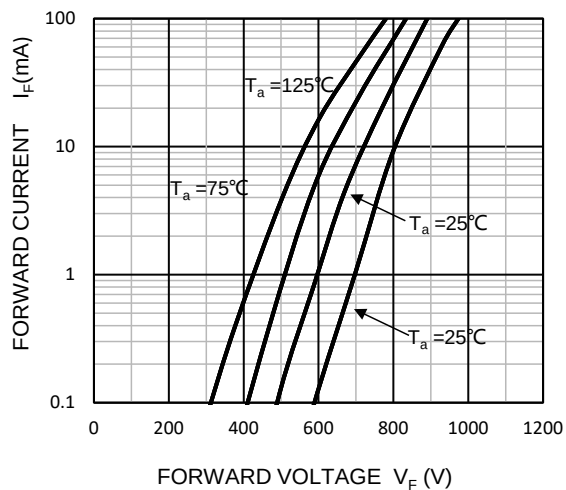
Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=100\mu\text{A}$	80	--	--	V
V_F	Forward voltage	$I_F=100\text{mA}$	--	--	1.2	V
I_R	Reverse current	$V_R=70\text{V}$	--	--	0.1	μA
C_T	Capacitance between terminals	$V_R=6\text{V}, f=1\text{MHz}$	--	--	3.5	pF
t_{rr}	Reverse recovery time	$I_F=I_R=5\text{mA}, V_R=6\text{V}, R_L=50\Omega$	--	--	4	ns

Ordering Information (Example)

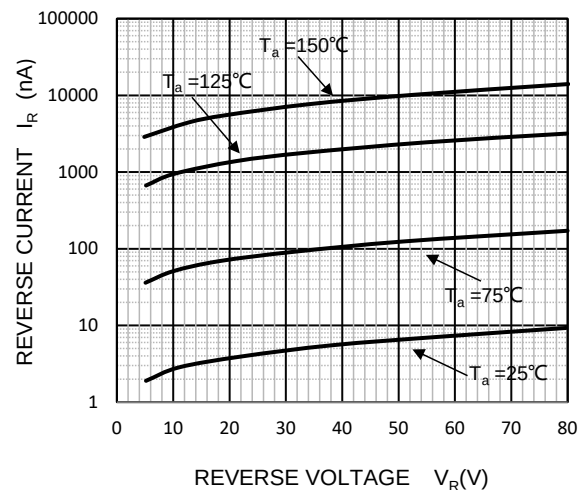
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
DAP222M	SOT-723	P	8,000	120,000	480,000	7" reel

Typical Operating Characteristics

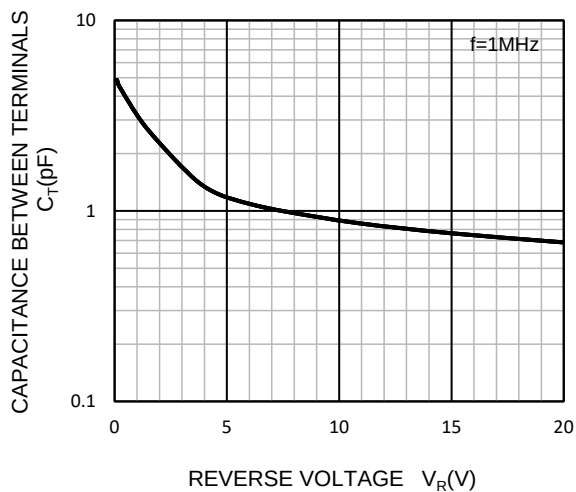
Forward Characteristics



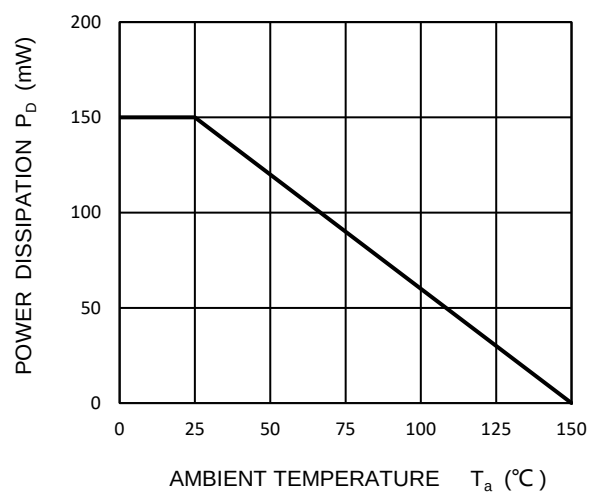
Reverse Characteristics



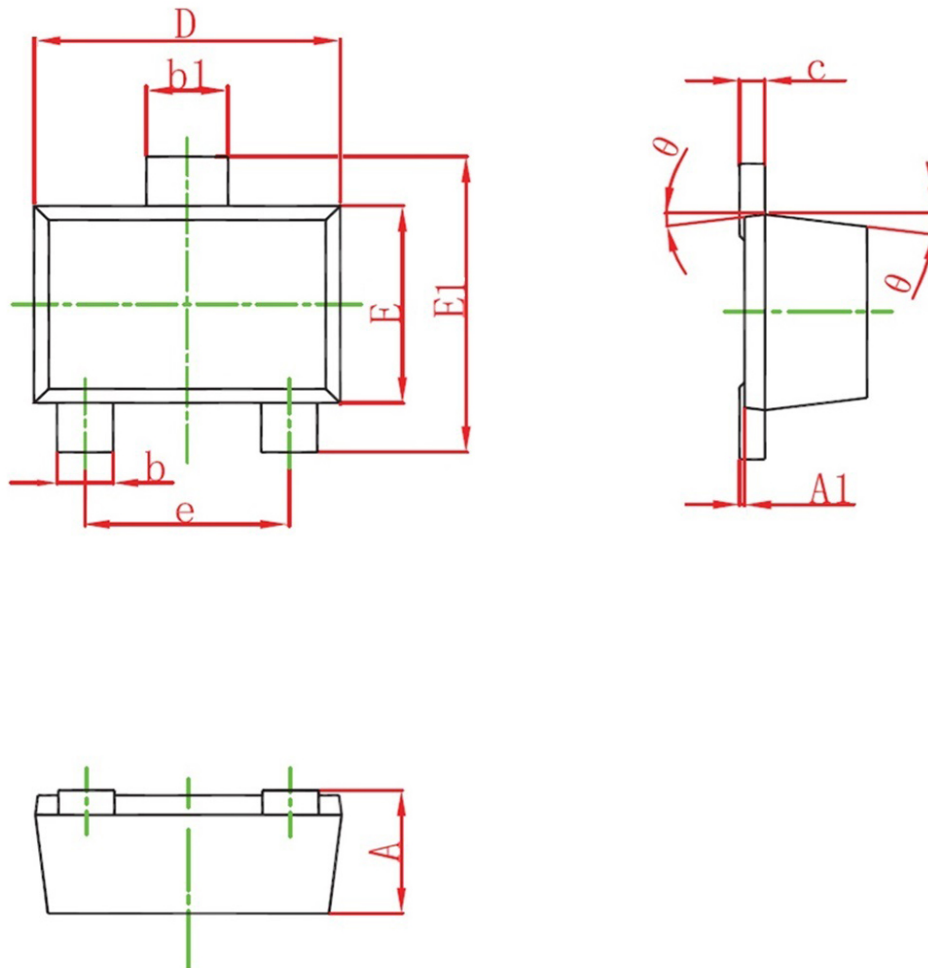
Capacitance Characteristics



Power Derating Curve



SOT-723 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.320	0.400	0.012	0.016
A1	0.000	0.050	0.000	0.002
b	0.170	0.270	0.006	0.010
b1	0.270	0.370	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.150	1.250	0.046	0.050
E	0.750	0.850	0.030	0.034
E1	1.150	1.250	0.046	0.050
e	0.800TYP		0.020TYP	
θ	7°REF		7°REF	