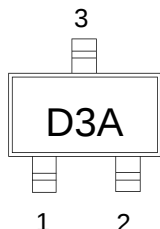
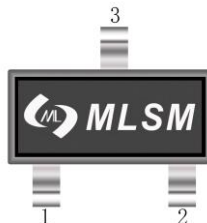


Features

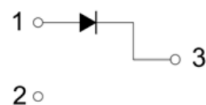
- Small Surface Mounting Type
- Low Reverse Current And Low Forward Voltage
- High Reliability



Marking and pin assignment



SOT-23 top view



Schematic diagram



Halogen-Free

Maximum Ratings @Ta=25

Symbol	Parameter	Value	Unit
V_{RM}	Peak Reverse Voltage	40	V
V_R	DC Reverse	40	V
I_o	Mean rectifying current	0.5	A
I_{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	3	A
P_D	Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	400	°C/W
T_J	Operating Junction Temperature Range	-40 ~ +125	°C
T_{STG}	Storage Temperature Range	-55~ +150	°C

Electrical Ratings (Ta=25°C unless otherwise specified)

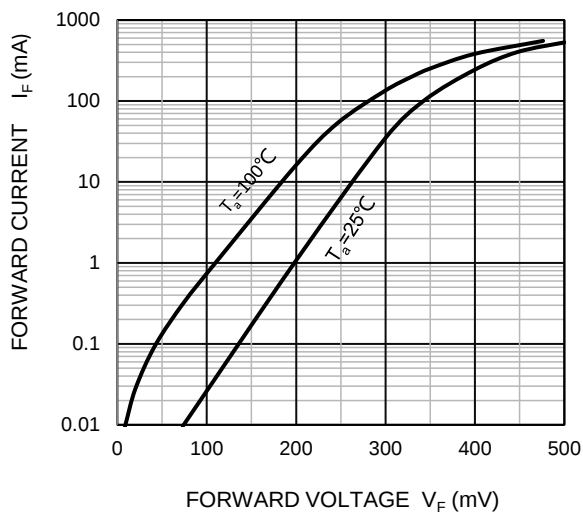
Symbol	Parameter	Condition	Min	Typ	Max	Unit
V_R	Reverse breakdown voltage	$I_R=100\mu A$	40	--	--	V
I_{R1}	Reverse current	$V_R=30V$	--	--	50	μA
I_{R2}		$V_R=10V$	--	--	30	μA
V_F	Forward voltage	$I_F=0.5A$	--	--	0.55	V
C_{T1}	Capacitance between terminals	$V_R=0V, f=1MHz$	--	125	--	pF
C_{T2}		$V_R=10V, f=1MHz$	--	20	--	pF

Ordering Information (Example)

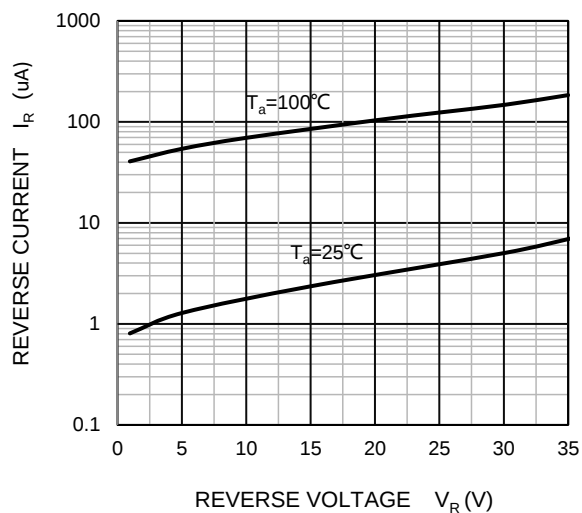
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
RB400D	SOT-23	D3A	3,000	45,000	180,000	7"reel

Typical Operating Characteristics

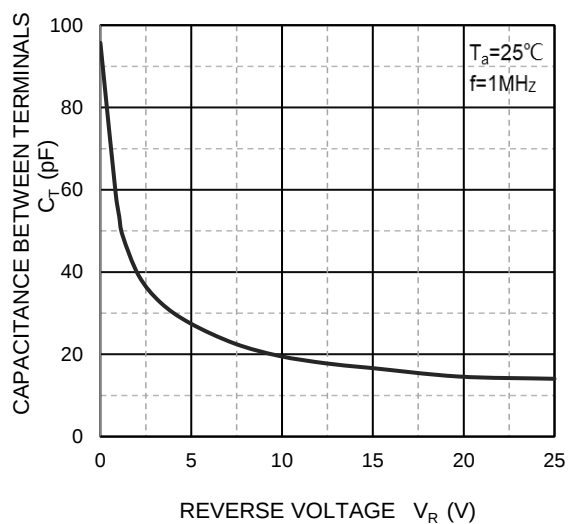
Forward Characteristics



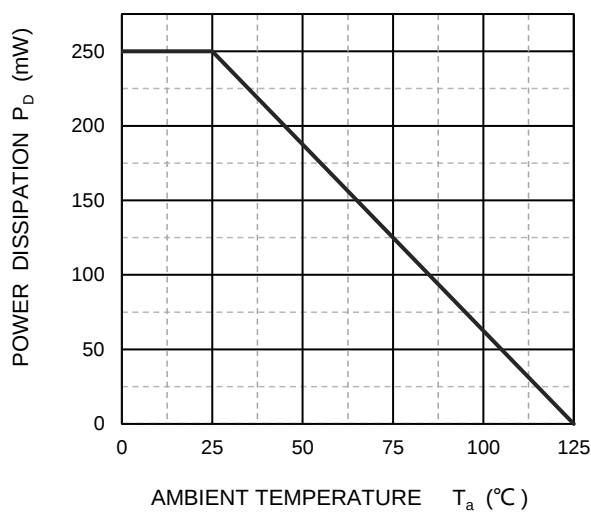
Reverse Characteristics



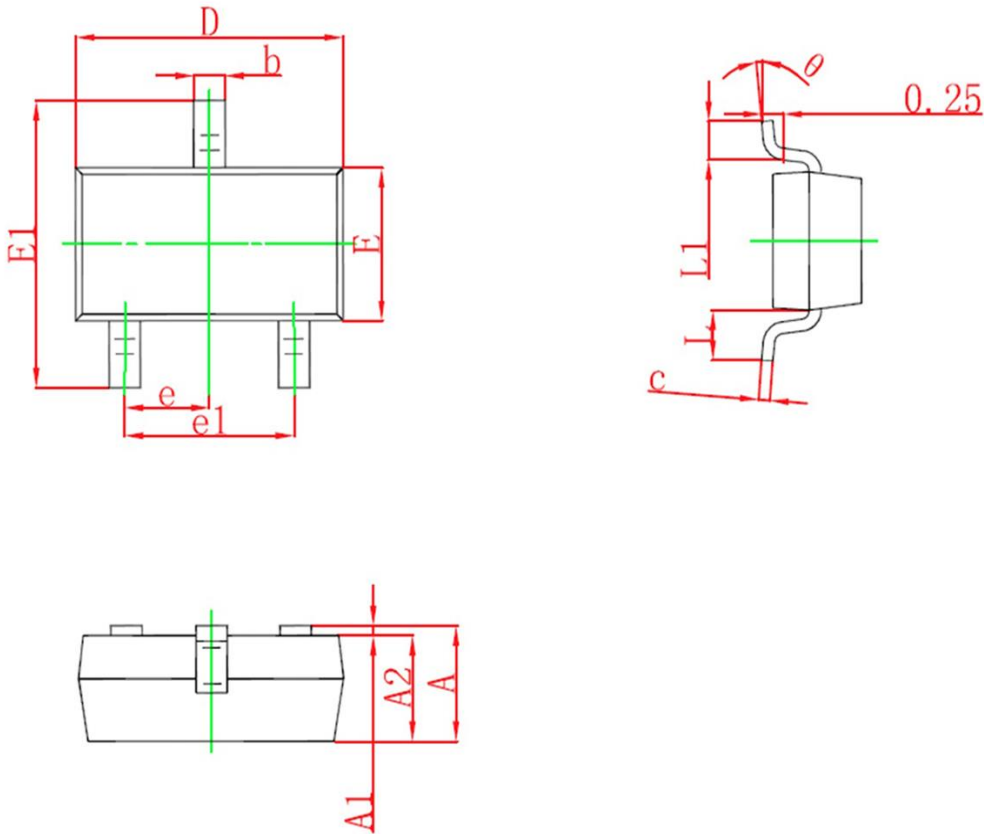
Capacitance Characteristics



Power Derating Curve



SOT-23 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E1	2.250	2.550	0.088	0.100
E	1.200	1.400	0.047	0.055
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°