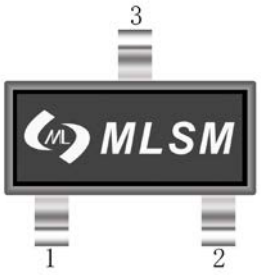
Features

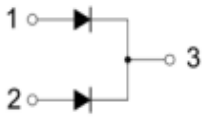
- Small Surface Mounting Type
- Low Forward Voltage
- Low Reverse Current
- High Reliability

Applications

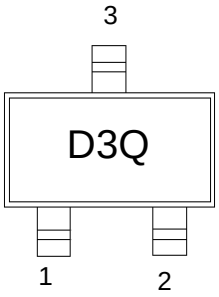
- General Rectification



SOT-23 top view



Schematic diagram



Marking and pin assignment

Pb-Free RoHS Halogen-Free

Maximum Ratings(T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	40	V
$V_{R(RMS)}$	RMS reverse voltage	28	V
V_{RWM}	Working Peak Reverse Voltage	40	V
I_o	Continuous Forward Current	400	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	2	A
P_D	Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	400	℃/W
T_J	Operating Junction Temperature Range	-40 ~ +125	℃
T_{STG}	Storage Temperature Range	-55~ +150	℃

ELECTRICAL CHARACTERISTICS(Ta=25℃ unless otherwise specified)

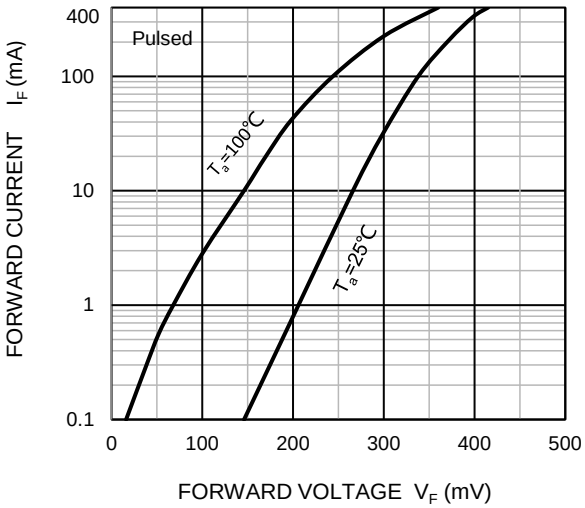
Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	I_R=100μA	25	--	--	V
I_R	Reverse current	V_R=25V	--	--	70	μA
V_F	Forward voltage	I_F=10mA	--	--	0.3	V
		I_F=200mA	--	--	0.5	V

Ordering Information (Example)

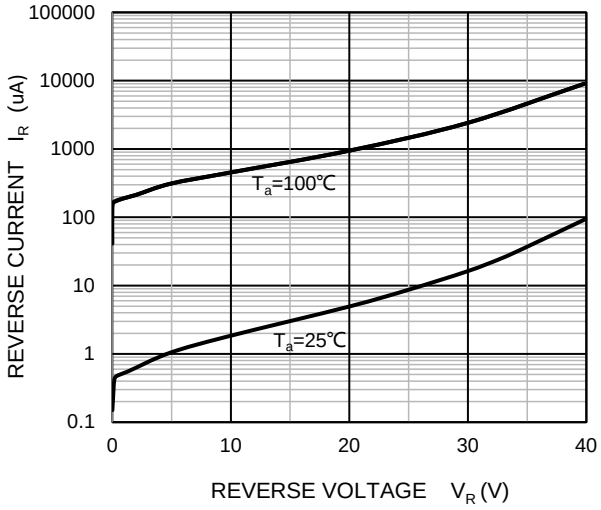
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
RB495D	SOT-23	D3Q	3,000	45,000	180,000	7"reel

Typical Operating Characteristics

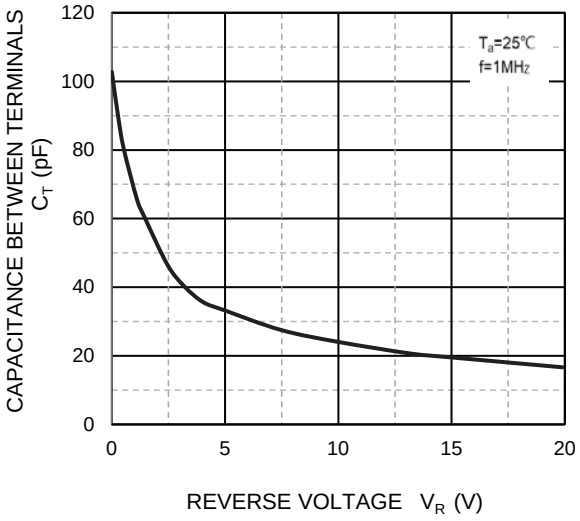
Forward Characteristics



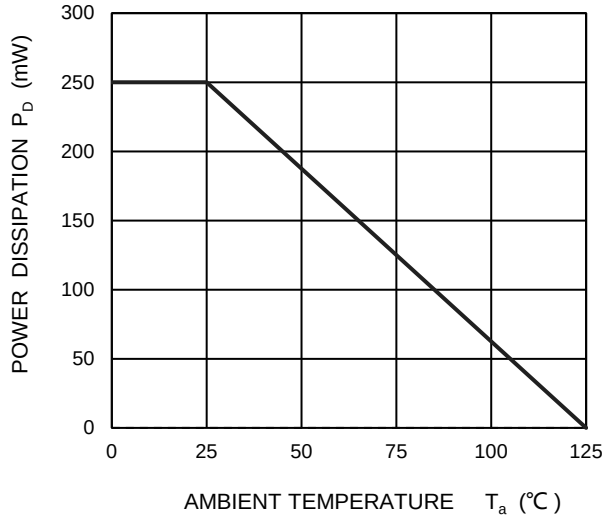
Reverse Characteristics



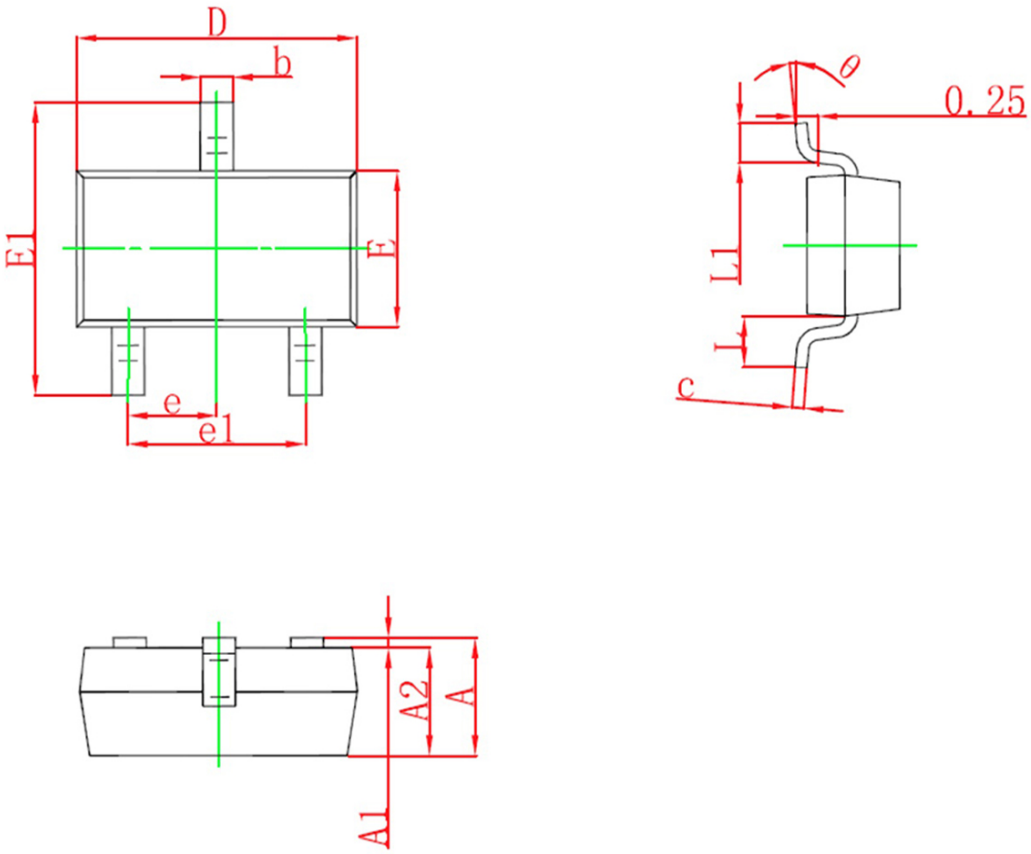
Capacitance Characteristics Per Diode



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°