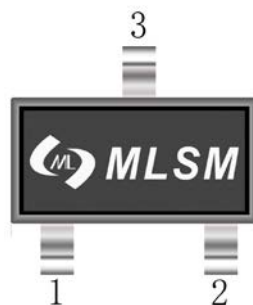
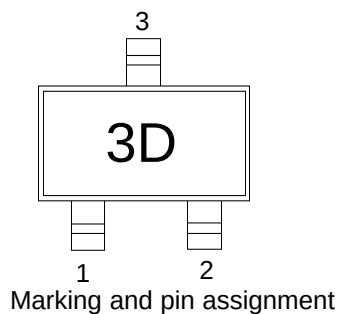


Features

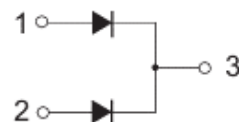
Extra Small Power Mold Type

Low V_F

High Reliability



SOT-523 top view



Schematic diagram



Halogen-Free

Maximum Ratings @Ta=25°C

Symbol	Parameter	Limit	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	40	V
V_R	DC Blocking Voltage	40	V
I_O	Average Rectified Output Current	30	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @ $t=8.3ms$	200	mA
P_D	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	667	°C/W
T_J, T_{STG}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)

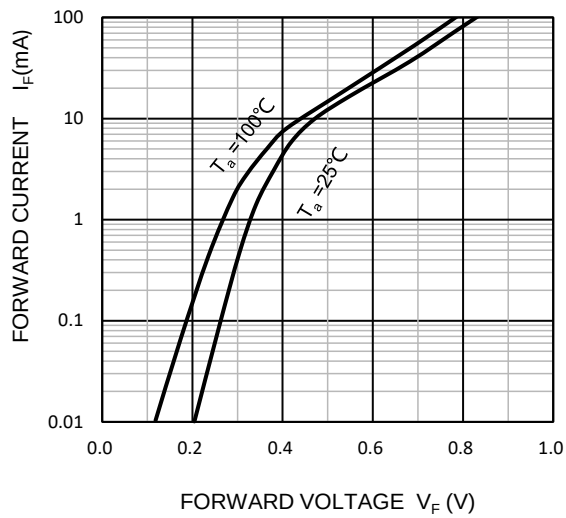
Symbol	Parameter	Condition	Min	Typ	Max	Unit
V_F	Forward voltage	$I_F=1mA$	--	--	0.37	V
I_R	Reverse current	$V_R=10V$	--	--	1	μA
C_T	Capacitance between terminals	$V_R=1V, f=1MHz$	--	--	2.0	pF

Ordering Information (Example)

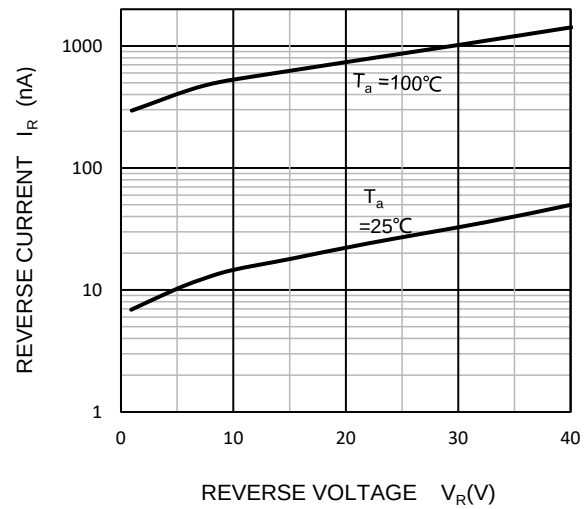
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
RB715W	SOT-523	3D	3,000	45,000	180,000	7"reel

Typical Operating Characteristics

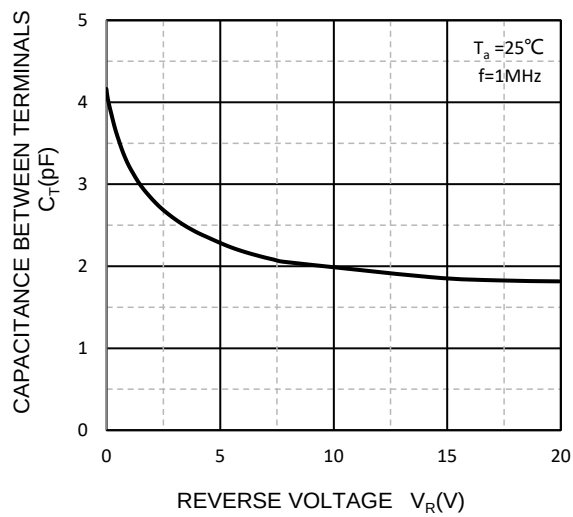
Forward Characteristics



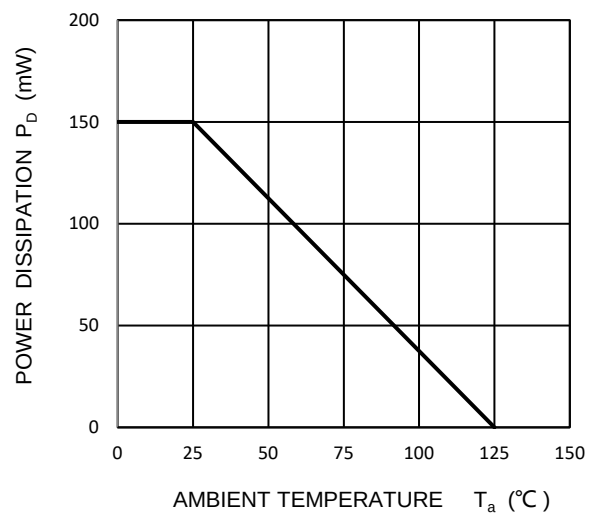
Reverse Characteristics



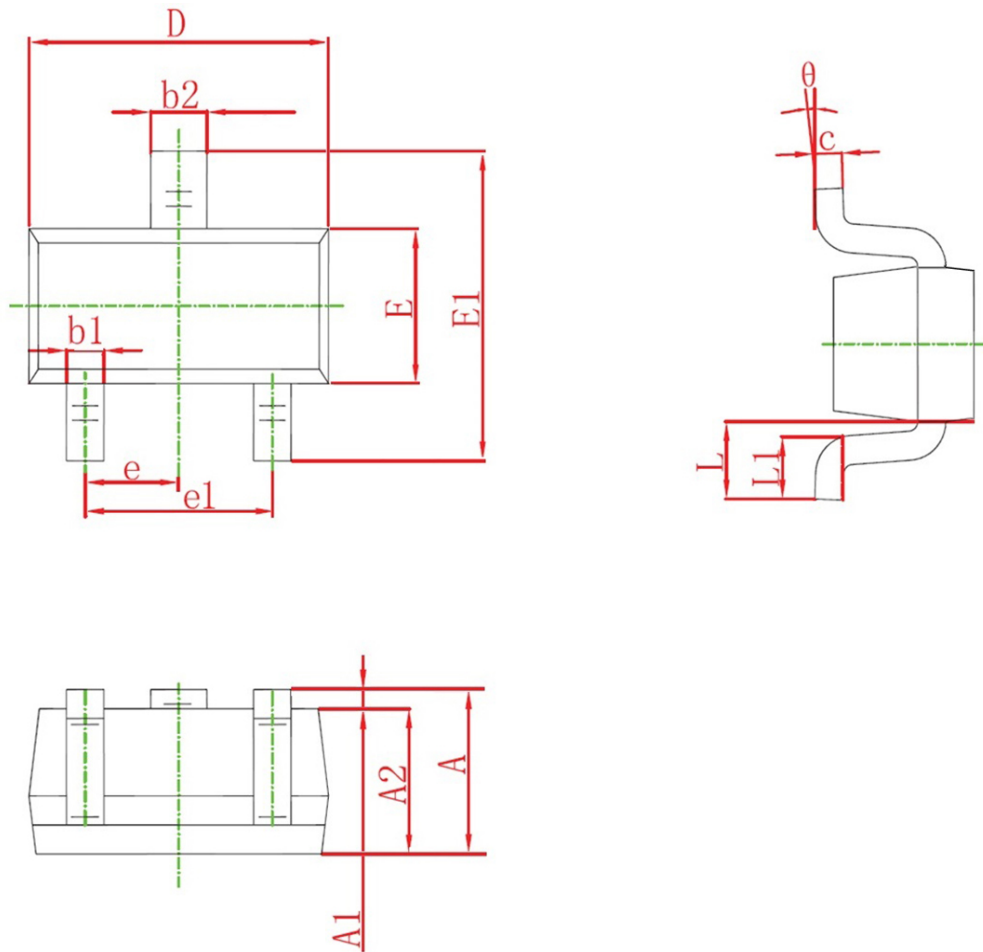
Capacitance Characteristics



Power Derating Curve



SOT-523 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.700	0.900	0.028	0.035
A1	0.000	0.100	0.000	0.004
A2	0.700	0.800	0.028	0.031
b1	0.150	0.250	0.006	0.010
b2	0.250	0.350	0.010	0.014
c	0.100	0.200	0.004	0.008
D	1.500	1.700	0.059	0.067
E	0.700	0.900	0.028	0.035
E1	1.450	1.750	0.057	0.069
e	0.500TYP		0.020TYP	
e1	0.900	1.100	0.035	0.043
L	0.400REF		0.016REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°