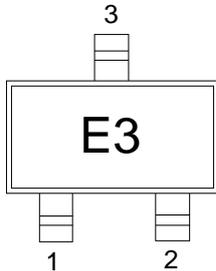
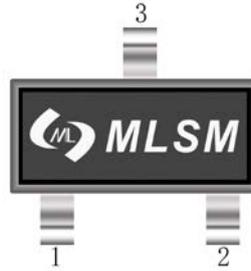


Features

- Low forward voltage
- Fast reverse recovery time



Marking and pin assignment



SOT-23 top view



Schematic diagram



Pb-Free



RoHS



Halogen-Free

Maximum Ratings (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RM}	Non-Repetitive Peak Reverse Voltage	85	V
V _R	Peak Repetitive Peak Reverse Voltage	80	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=8.3ms	2	A
P _D	Power Dissipation	150	mW
R _{θJA}	Thermal Resistance Junction to Ambient	833	°C/W
T _J , T _{STG}	Operating and Storage Temperature Range	-55~ +150	°C

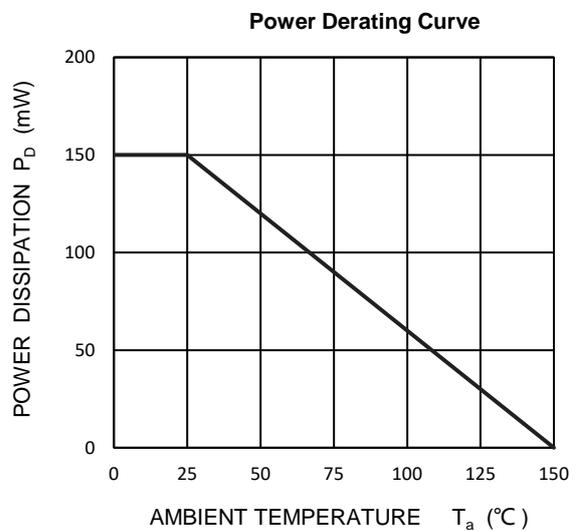
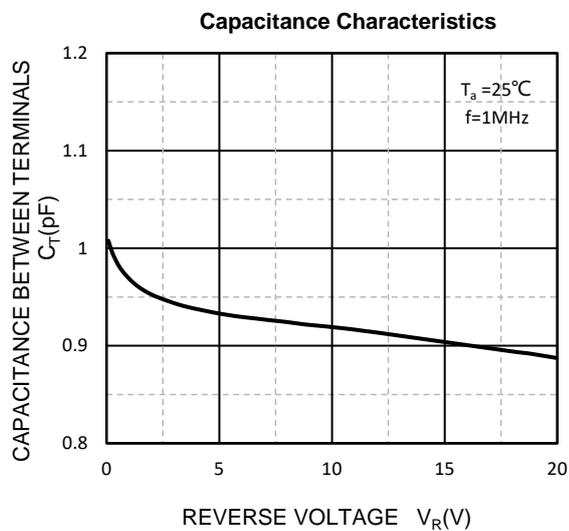
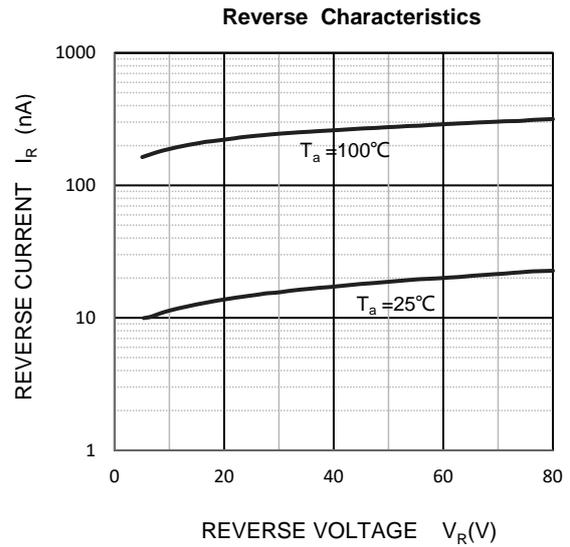
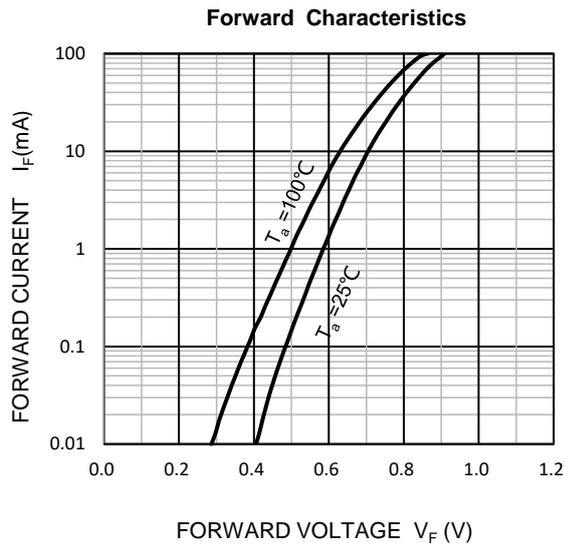
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

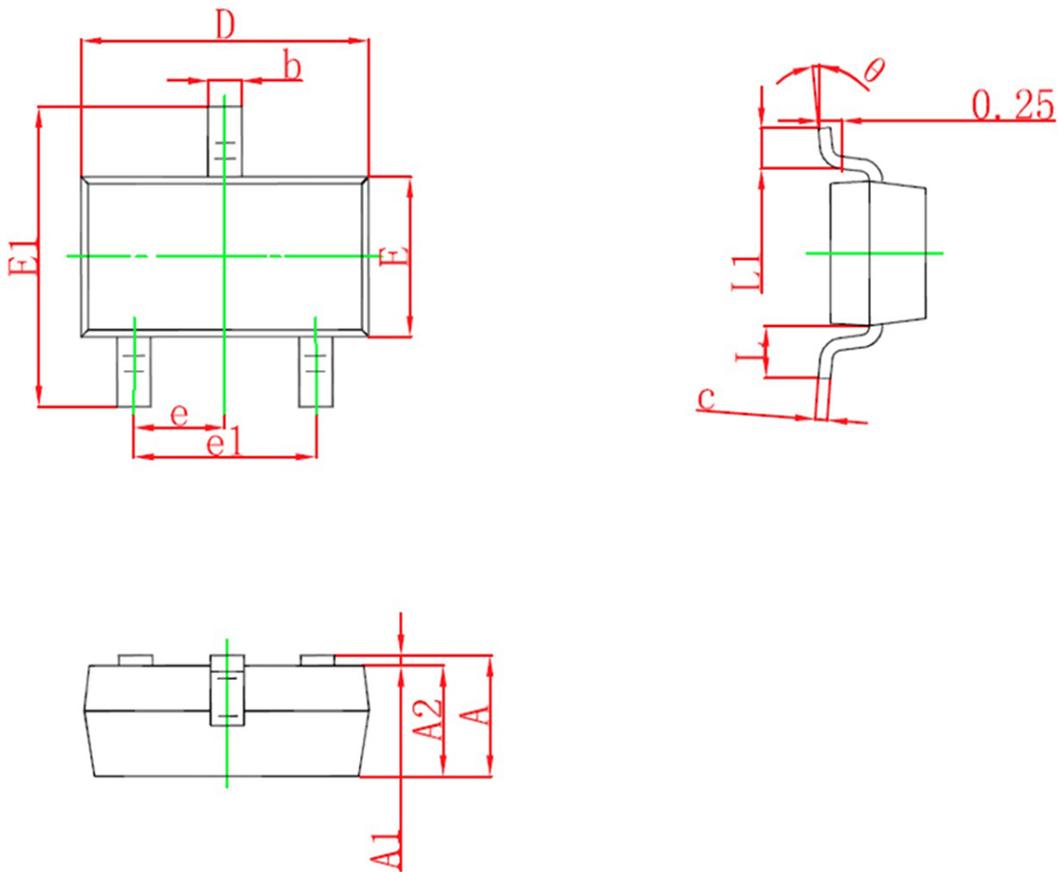
Symbol	Parameter	Condition	Min	Typ	Max	Unit
V _(BR)	Reverse voltage	I _R =100μA	80	--	--	V
I _{R1}	Reverse current	V _R =30V	--	--	0.1	μA
I _{R2}		V _R =80V	--	--	0.5	
V _{F1}	Forward voltage	I _F =1mA	--	0.61	--	V
V _{F2}		I _F =10mA	--	0.74	--	V
V _{F3}		I _F =100mA	--	0.92	1.2	V
C _T	Capacitance between terminals	V _R =0, f=1MHz	--	2.2	4.0	pF
t _{rr}	Reverse recovery time	I _F = I _R =10mA, I _r =0.1X I _R	--	1.6	4.0	ns

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
1SS190	SOT-23	E3	3,000	45,000	180,000	7" reel

Typical Operating Characteristics



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°