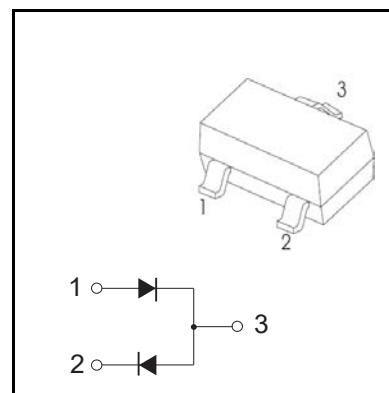


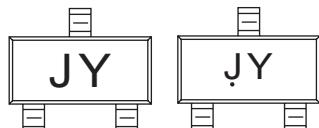
Switching Diode

FEATURES

- This Switching Diode has The Following Features:
- Low Leakage Current Applications
- AEC-Q101 qualified (Automotive grade with suffix "Q!")
- Exsemi technology



Marking: JY



Solid dot = Green molding compound device,
if none, the normal device

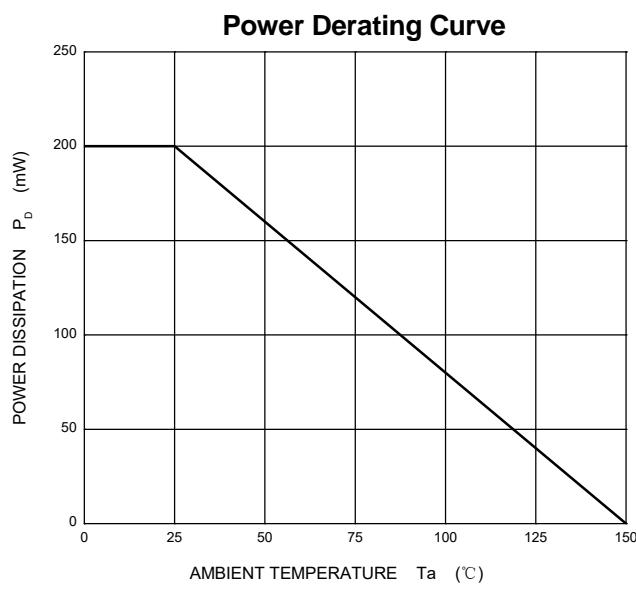
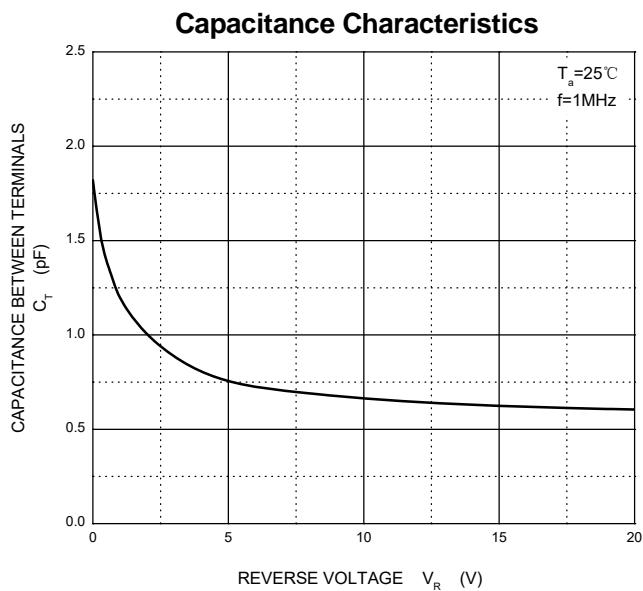
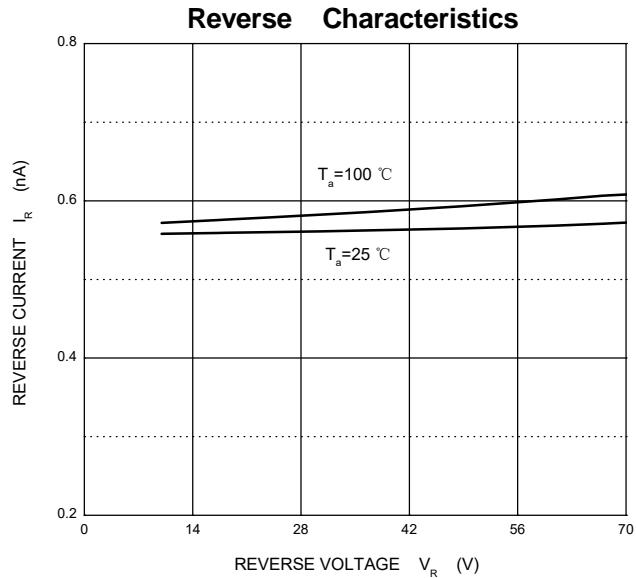
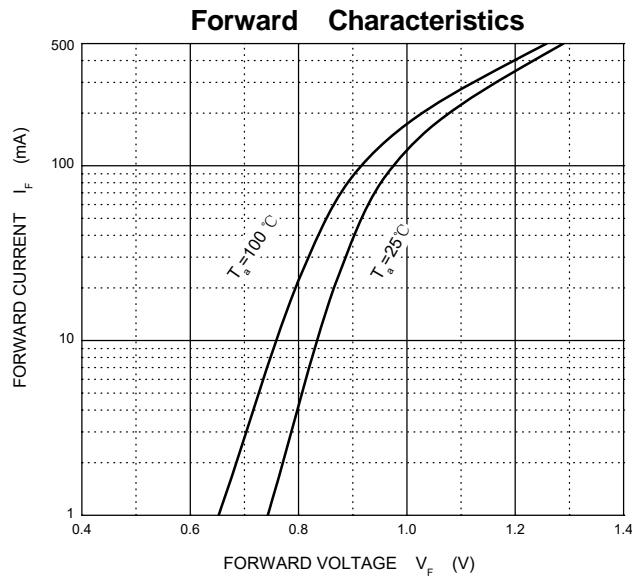
Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	85	V
DC Blocking Voltage	V _R	85	V
Forward Continuous Current	I _{FM}	500	mA
Average Rectified Output Current	I _O	215	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	1.0	A
Power Dissipation	P _D	200	mW
Operation Junction and Storage Temperature Range	T _J , T _{STG}	-55~+150	°C

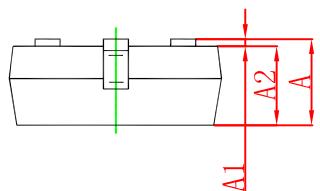
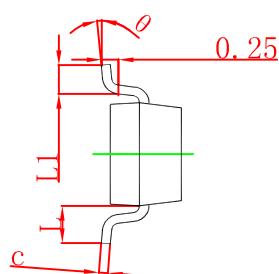
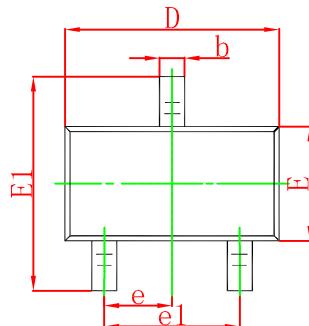
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 100µA	85		V
Reverse voltage leakage current	I _R	V _R =70V		5	nA
Forward voltage	V _F	I _F =1mA I _F =10mA I _F =50mA I _F =150mA		900 1000 1100 1250	mV
Diode capacitance	C _D	V _R =0, f=1MHz		2	pF
Reverse recovery time	t _{rr}	I _F = I _R =10mA		3	µs

Typical Characteristics

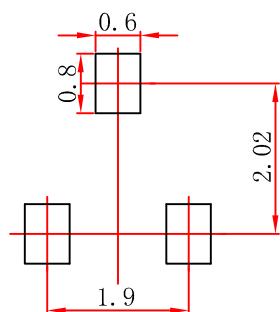


SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		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
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
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°

SOT-23 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.