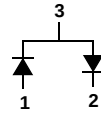


Product characteristics

V_{RRM}	70	V
I_F	200	mA
I_R	2.5	μA

Symbol



Package


Absolute Maximum ratings $T_A = 25^\circ C$ unless otherwise noted

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	70	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	1.0	A
Pulse Width = 1.0 second		8.0	A
Storage Temperature Range	T_{stg}	-55 to +150	$^\circ C$
Operating Junction Temperature	T_J	-55 to +150	$^\circ C$

Thermal characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	350	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	357	$^\circ C/W$

Electrical characteristics $T_c = 25^\circ C$ unless otherwise noted

Parameter	Symbol	Test ciondition	Min	Max	Unit
Breakdown Voltage	V_R	$I_R = 100\mu A$	70		V
Forward Voltage	V_F	$I_F = 1.0mA$		715	mV
		$I_F = 10mA$		855	mV
		$I_F = 50mA$		1.0	V
		$I_F = 150mA$		1.25	V
Reverse Leakage	I_R	$V_R = 70V$		2.5	μA
		$V_R = 25V, T_A = 150^\circ C$		30	μA
		$V_R = 70V, T_A = 150^\circ C$		50	μA
Total Capacitance	C_T	$V_R = 0V, f = 1.0MHz$		1.5	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10mA, I_{RR} = 1.0mA, R_L = 100\Omega$		6.0	ns

Typical performance characteristics

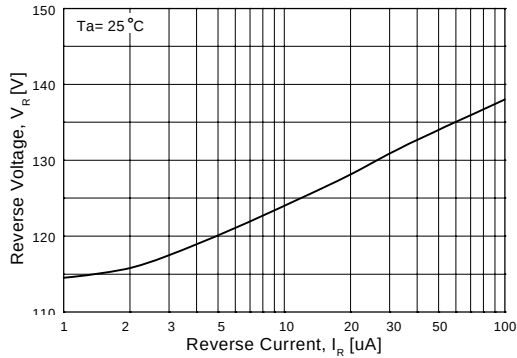


Figure 1. Reverse Voltage vs Reverse Current
BV - 1.0 to 100uA

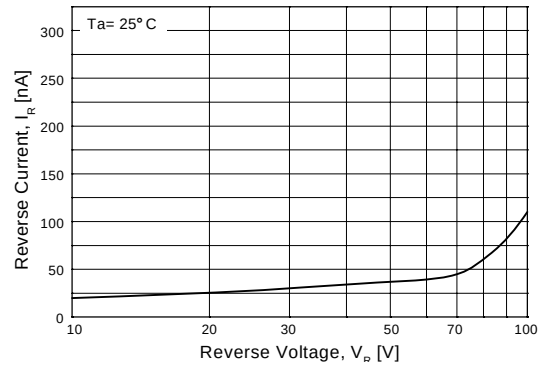


Figure 2. Reverse Current vs Reverse Voltage
IR - 10 to 100 V

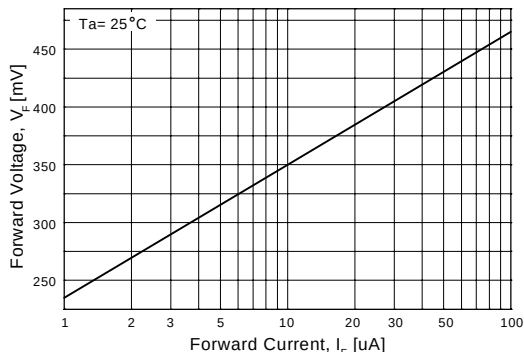


Figure 3. Forward Voltage vs Forward Current
VF - 1.0 to 100 uA

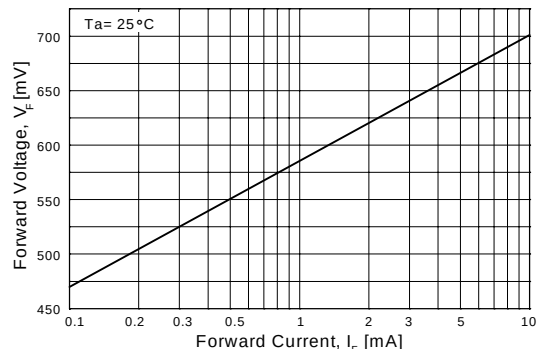


Figure 4. Forward Voltage vs Forward Current
VF - 0.1 to 10 mA

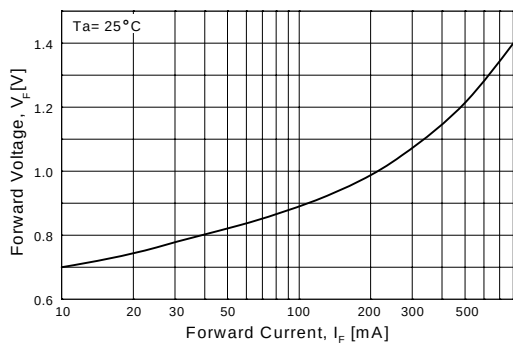


Figure 5. Forward Voltage vs Forward Current
VF - 10 - 800 mA

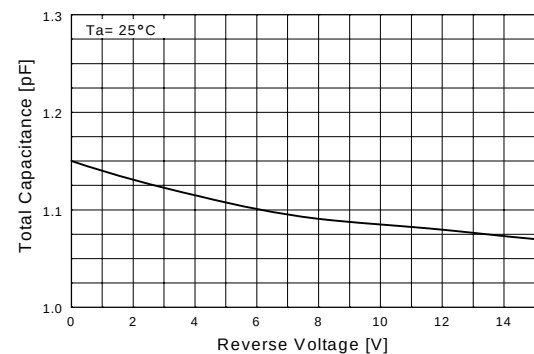
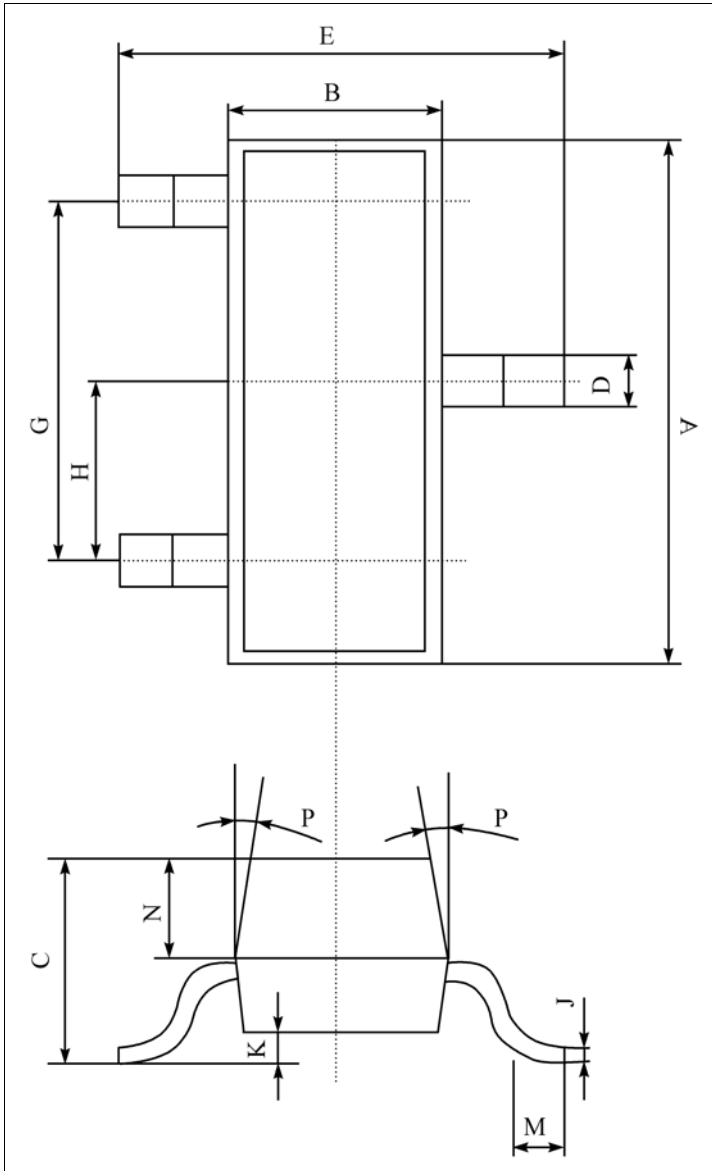


Figure 6. Total Capacitance vs Reverse Voltage

■ DIMENSION 外形封装尺寸数据 (Package: SOT-23)

单位 (UNIT) : mm



序号	数值及公差
A	2.90±0.10
B	1.30±0.10
C	1.00±0.10
D	0.40±0.10
E	2.40±0.20
G	1.90±0.10
H	0.95±0.05
J	0.13±0.05
K	0.00-0.10
M	≥0.20
N	0.60±0.10
P	7±2°

Packing
SOT-23 包装规格
SMD片式表面贴封装
包装方式: 载带卷盘包装
Tape & Reel, 3Kpcs/Reel
每卷数量3000只 (3Kpcs/Reel)
每盒数量45000只 (45Kpcs/BOX)
每箱数量180000只 (180Kpcs/Cartons)