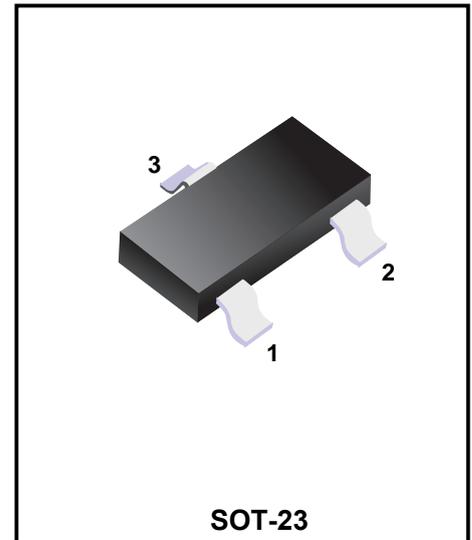
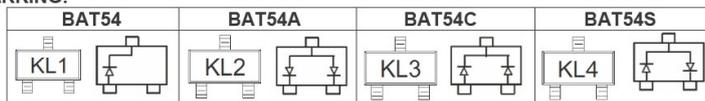


**Plastic-Encapsulate Schottky Barrier Diode**
**Features**

- ◆ High Current Capability
- ◆ Low Forward Voltage Drop
- ◆ Extremely Fast Switching Speed

**Mechanical Data**

- ◆ Case: SOT-23
- ◆ Epoxy UL: 94V-0
- ◆ Mounting Position: Any
- ◆ High temperature soldering guaranteed: 260°C/10s
- ◆ We declare that the material of product compliant with RoHS requirements and Halogen free


**MARKING:**

**Maximum Ratings & Thermal Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified.)

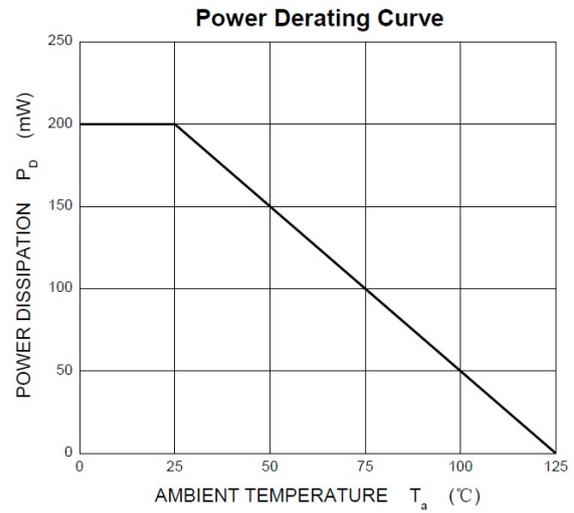
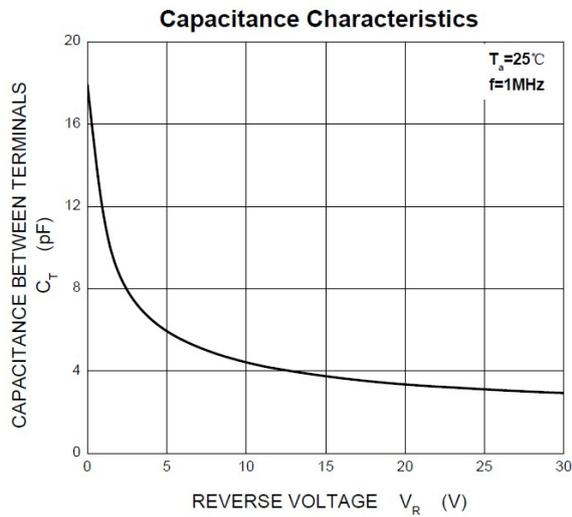
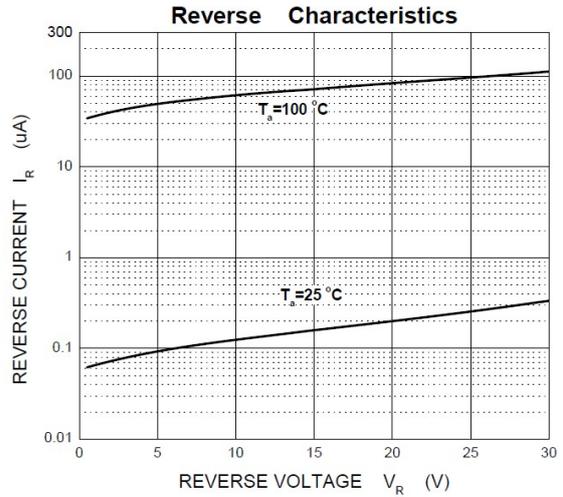
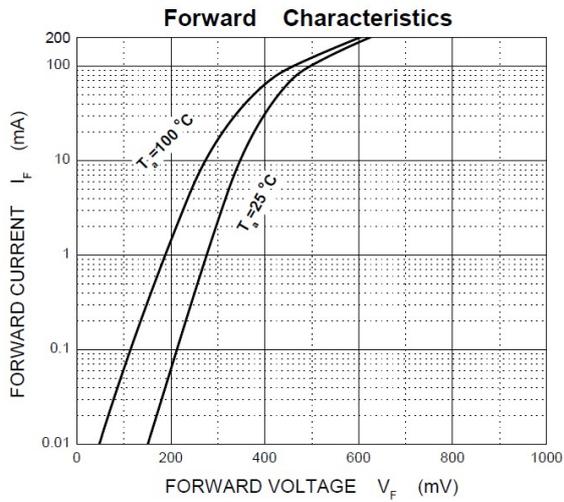
Characteristics	Symbols	Value	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	30	V
Maximum RMS voltage	$V_{RMS}$	21	V
Maximum DC blocking voltage	$V_{DC}$	30	V
Maximum average forward rectified current	$I_{FM}$	200	mA
Peak forward surge current 8.3 ms single half sine-wave	$I_{FSM}$	600	mA
Typical thermal resistance	$R_{\theta JA}, R_{\theta JC}$	500/360	°C/W
Power Dissipation	$P_D$	200	mW
Junction Temperature	$T_J$	125	°C
Storage temperature range	$T_{STG}$	-50 to +150	°C

**Electrical Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified.)

Characteristics	Test Condition	Symbols	Min	Typ	Max	Units
Maximum forward voltage	$I_F = 0.1mA$	$V_{F1}$	-	-	240	mV
	$I_F = 1.0mA$	$V_{F2}$	-	-	320	mV
	$I_F = 10mA$	$V_{F3}$	-	-	400	mV
	$I_F = 30mA$	$V_{F4}$	-	-	500	mV
	$I_F = 100mA$	$V_{F5}$	-	-	1000	mV
Maximum reverse breakdown voltage	$I_R = 100\mu A$	$V_R$	30	-	-	V
Maximum reverse current	$V_R = 25V$	$I_R$	-	-	2.0	uA
Type junction capacitance	$V_R = 1.0V, f = 1MHz$	$C_j$	-	-	10	pF
Reverse Recovery time	$I_F = I_R = 10mA, I_{rr} = 0.1 \times I_R, RL = 100\Omega$	$trr$	-	-	5	ns

Typical characteristics



**Ordering information**

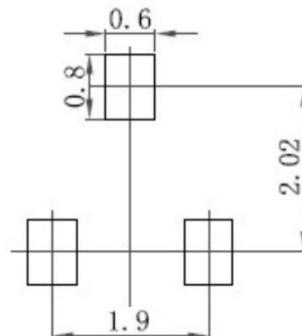
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

**Package Dimensions**

**SOT-23**

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
e	1.9		75	
e1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

**The recommended mounting pad size**



## Disclaimer

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