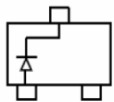


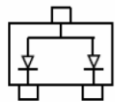
BAS40 Series Schottky Barrier Diode

Feature

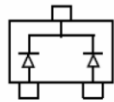
- Extremely Fast Switch Speed
- Low Forward Voltage



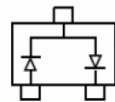
BAS40



BAS40-06

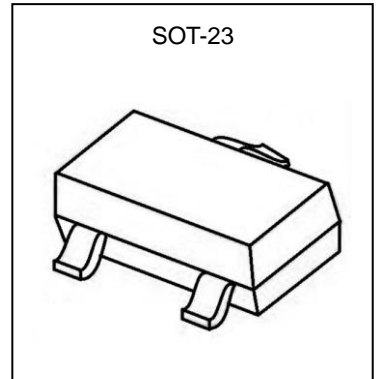


BAS40-05



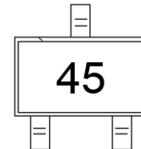
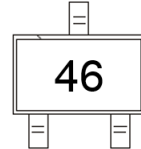


BAS40-04

SOT-23



MARKING:

BAS40	BAS40-04	BAS40-05	BAS40-06
			

ABSOLUTE MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

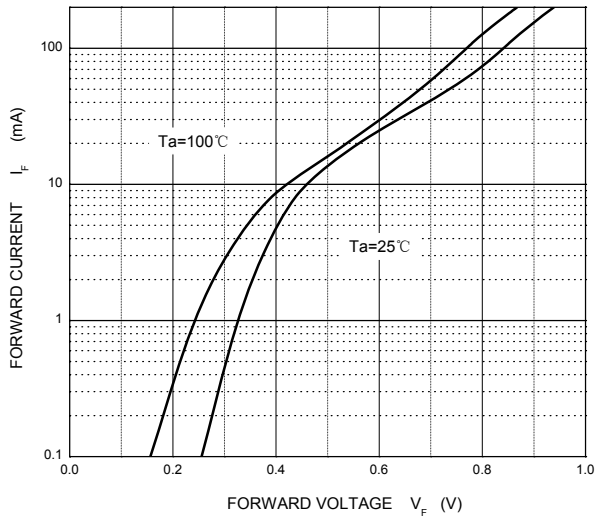
Parameter	Symbol	Value	Unit
DC reverse voltage	V _R	40	V
Mean rectifying current	I _o	0.2	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	0.6	A
Junction Temperature	T _J	125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

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

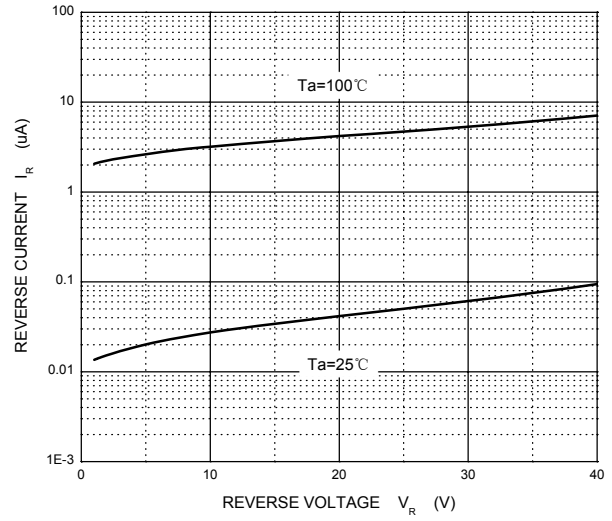
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =10μA	40			V
Forward voltage	V _{F1}	I _F =1mA			0.38	V
	V _{F2}	I _F =40mA			1.0	V
Reverse current	I _R	V _R =30V			200	nA
Capacitance between terminals	C _T	V _R =1V,f=1MHz			5	pF

Typical Characteristics

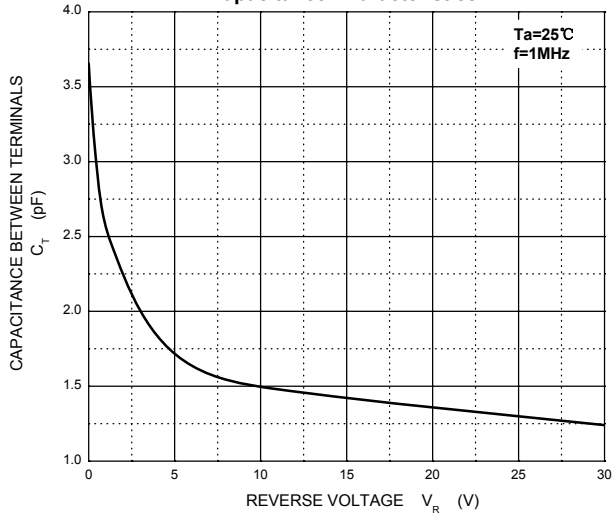
Forward Characteristics



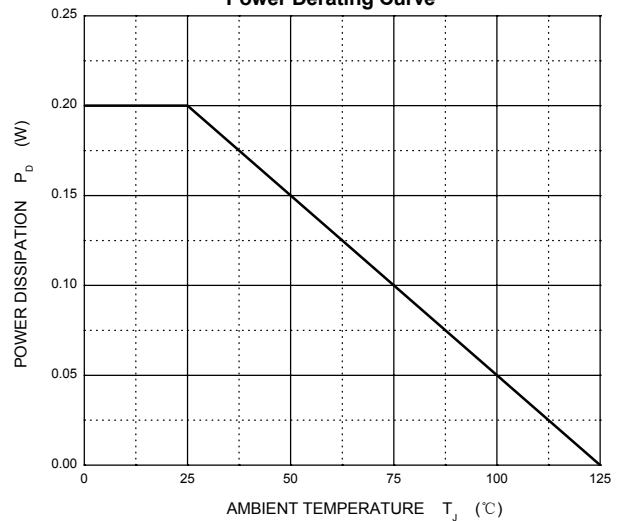
Reverse Characteristics



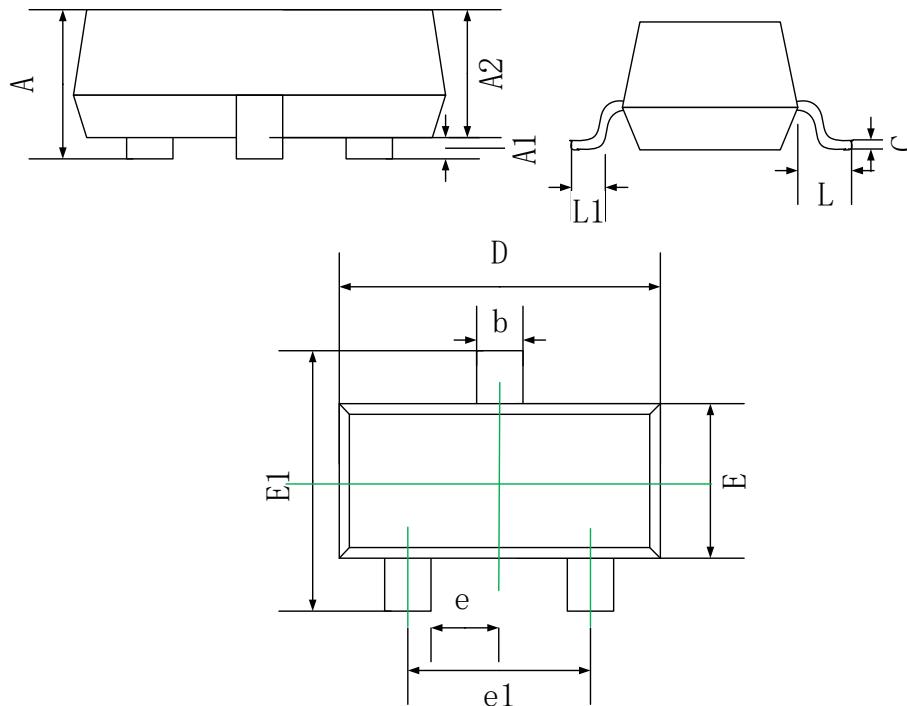
Capacitance Characteristics



Power Derating Curve

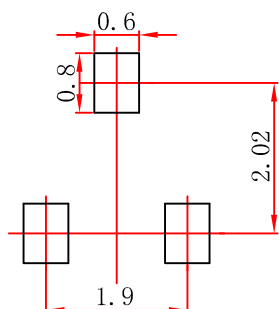


SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters	
	Min.	Max.
A	0.90	1.15
A1	0.00	0.10
A2	0.90	1.05
b	0.30	0.50
c	0.08	0.15
D	2.80	3.00
E	1.20	1.40
E1	2.25	2.55
e	0.95 REF.	
e1	1.80	2.00
L	0.55 REF.	
L1	0.30	0.50

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.