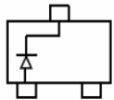


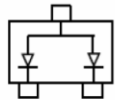
BAS40 Series Schottky Barrier Diode

Feature

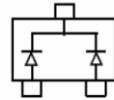
- Extremely Fast Switch Speed
- Low Forward Voltage



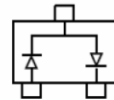
BAS40



BAS40-06

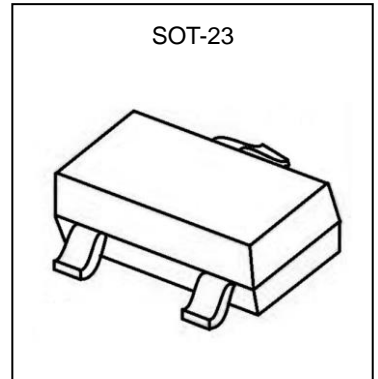


BAS40-05

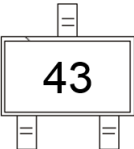





BAS40-04

SOT-23



MARKING:

BAS40	BAS40-04	BAS40-05	BAS40-06
			

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

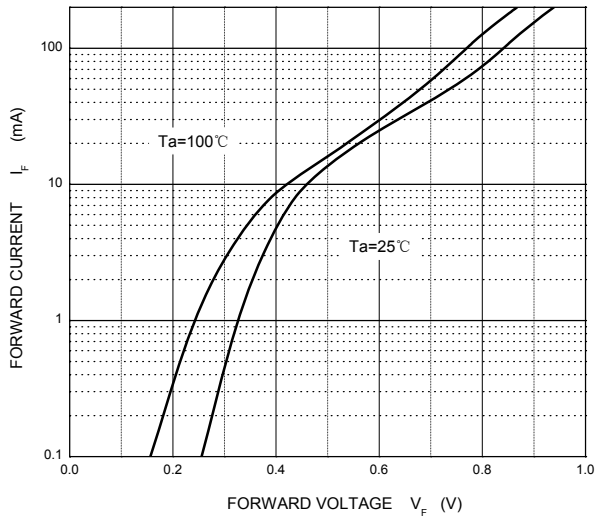
Parameter	Symbol	Value	Unit
DC reverse voltage	V _R	40	V
Mean rectifying current	I _o	0.2	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	0.6	A
Junction Temperature	T _J	125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

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

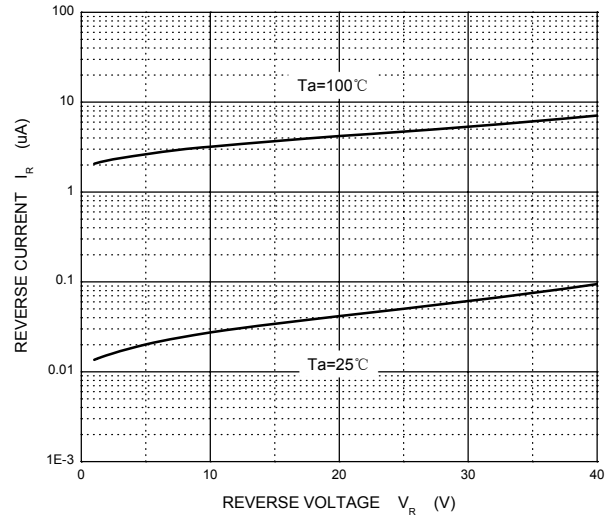
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =10μA	40			V
Forward voltage	V _{F1}	I _F =1mA			0.38	V
	V _{F2}	I _F =40mA			1.0	V
Reverse current	I _R	V _R =30V			200	nA
Capacitance between terminals	C _T	V _R =1V,f=1MHz			5	pF

Typical Characteristics

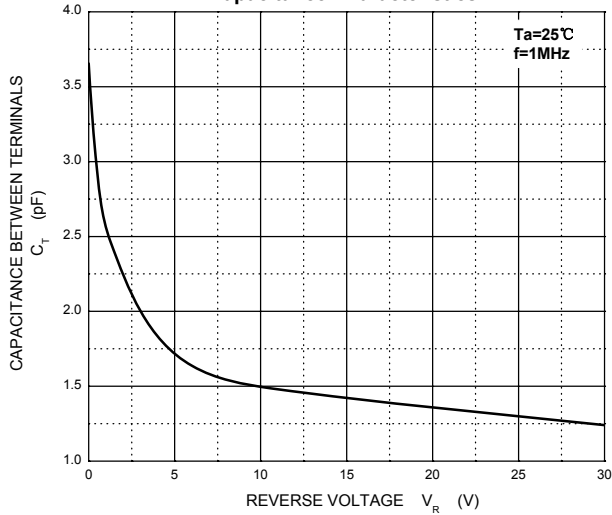
Forward Characteristics



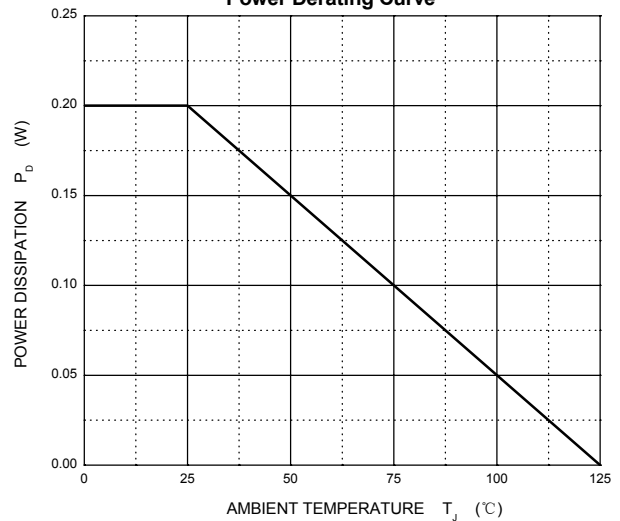
Reverse Characteristics



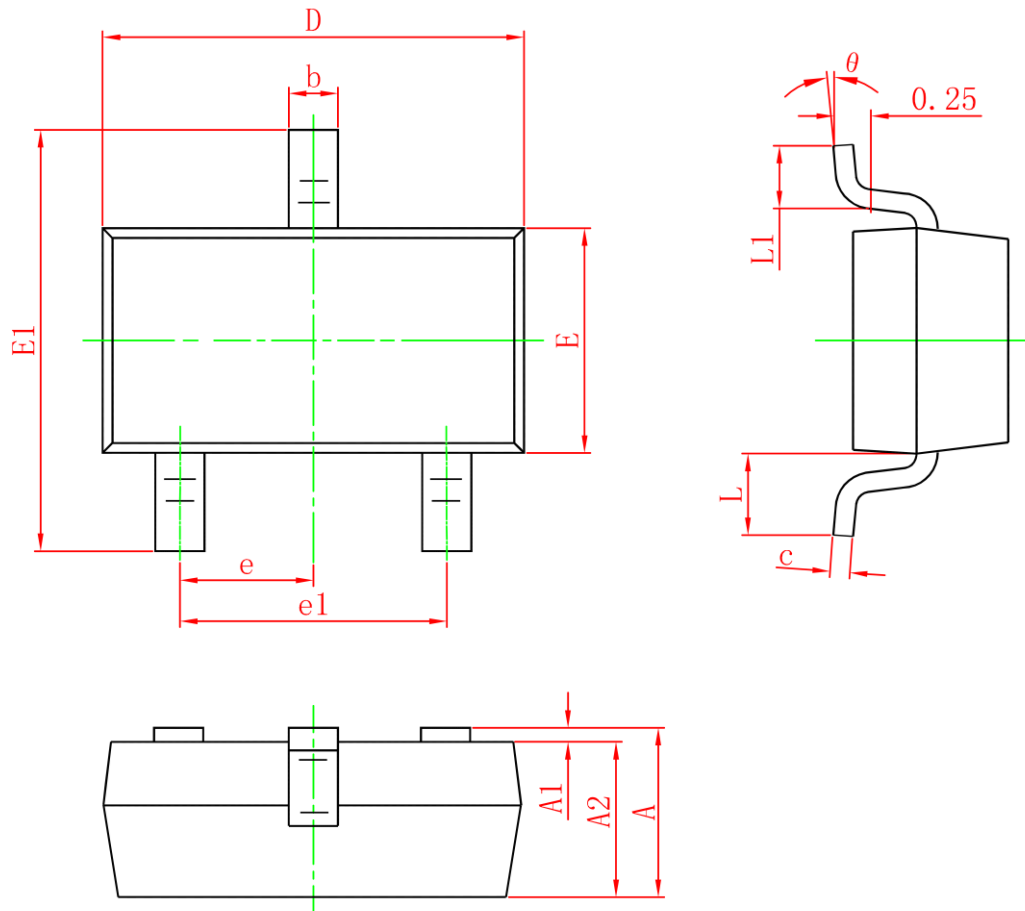
Capacitance Characteristics



Power Derating Curve



SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0	0.100	0	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	1.150	1.500	0.045	0.059
E1	2.250	2.650	0.089	0.104
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°