

## GBAS40 thru GBAS40-06

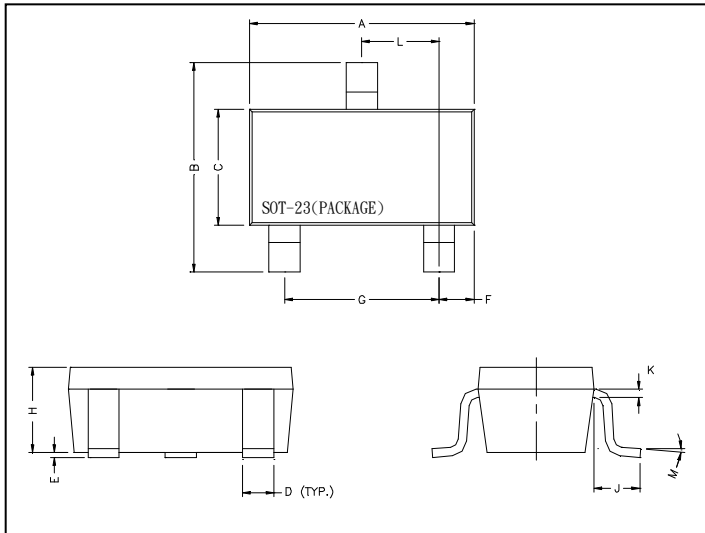
**SURFACE MOUNT, SCHOTTKY BARRIER DIODE**

**VOLTAGE 40V, CURRENT 0.2A**

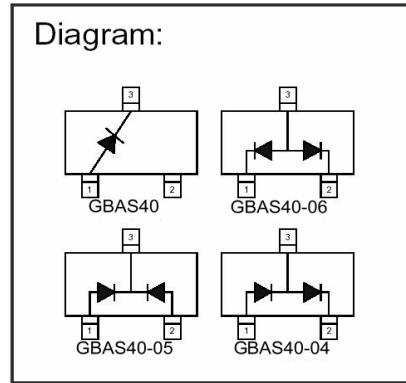
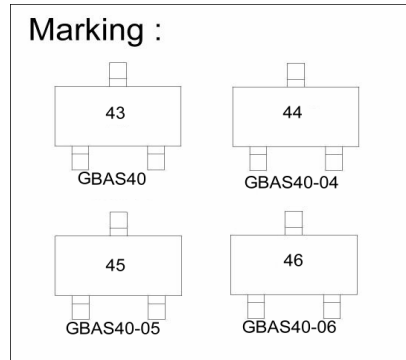
### Description

These schottky barrier diodes are designed for high speed switching applications, circuit protection and voltage clamping. Extremely low forward voltage reduces conduction loss. Miniature surface mount package is excellent for hand held and portable applications where space is limited.

### Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	1.90	REF.
B	2.40	2.80	H	1.00	1.30
C	1.40	1.60	K	0.10	0.20
D	0.35	0.50	J	0.40	-
E	0	0.10	L	0.85	1.15
F	0.45	0.55	M	0°	10°



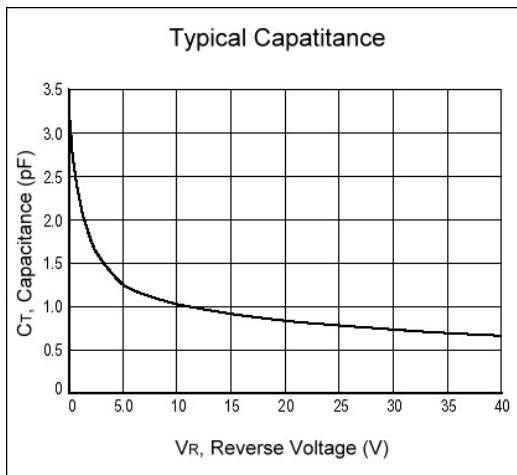
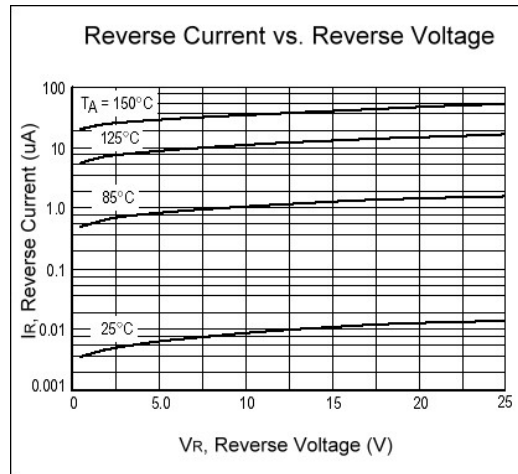
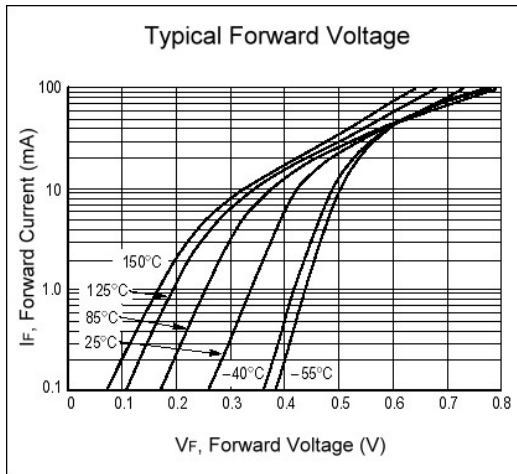
### Absolute Maximum Ratings at TA = 25°C

Parameter	Symbol	Ratings	Unit
Operating Junction Temperature	T <sub>j</sub>	-55 ~ +125	°C
Storage Temperature	T <sub>stg</sub>	-55 ~ +150	°C
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	445	°C/W
Peak Forward Surge Current at tp < 1.0s	I <sub>FSM</sub>	0.6	A
Maximum Average Forward Rectified Current	I <sub>o</sub>	0.2	A
Total Power Dissipation	PD	225	mW

### Electrical Characteristics (at TA = 25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	40	-	-	V	IR=10μA
Forward Voltage(tp < 300uS)	V <sub>F</sub>	-	-	380	mV	IF1=1mA
		-	-	1000		IF2=40mA
Reverse Leakage Current	I <sub>R</sub>	-	-	200	nA	VR=30V
Total Capacitance	C <sub>T</sub>	-	-	5.0	pF	VR=0V, f=1MHz
Reverse Recover Time	T <sub>rr</sub>	-	-	5.0	ns	IF=IR=10mA, RL=100Ω, Irr=1mA

## Characteristics Curve



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