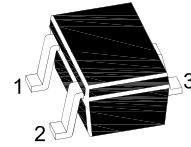


BAS40E / -04E / -05E / -06E

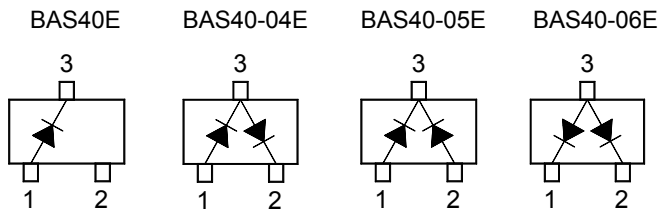
SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low forward voltage
- Fast switching



SOT-523 Plastic Package



BAS40E Marking Code: **43**
 BAS40-04E Marking Code: **44**
 BAS40-05E Marking Code: **45**
 BAS40-06E Marking Code: **46**

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	40	V
DC Blocking Voltage	V _R	40	V
Forward Continuous Current	I _F	200	mA
Peak Forward Surge Current (at t _p ≤ 8.3 ms)	I _{FSM}	600	mA
Power Dissipation	P _d	150	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{Stg}	- 65 to + 150	°C

Characteristics at T_a = 25°C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 1 mA at I _F = 40 mA	V _F	-	0.38	V
	V _F	-	1	V
Reverse Breakdown Voltage at I _R = 10 μA	V _{(BR)R}	40	-	V
Reverse Current at V _R = 30 V	I _R	-	200	nA
Total Capacitance at V _R = 0 V, f = 1 MHz	C _T	-	5	pF
Reverse Recovery Time at I _F = I _R = 10 mA, I _{rr} = 0.1 I _R	t _{rr}	-	5	ns

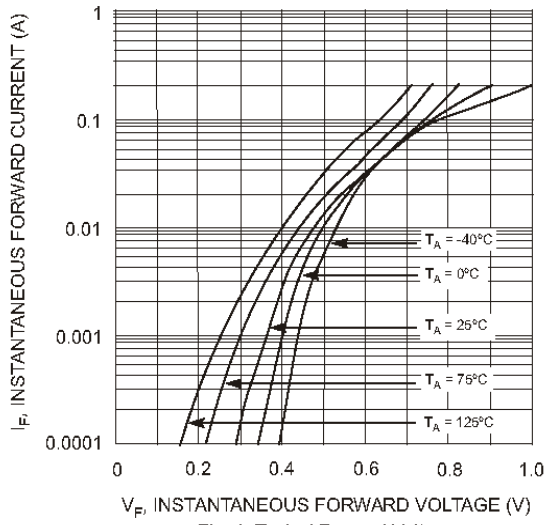


Fig. 1 Typical Forward Voltage

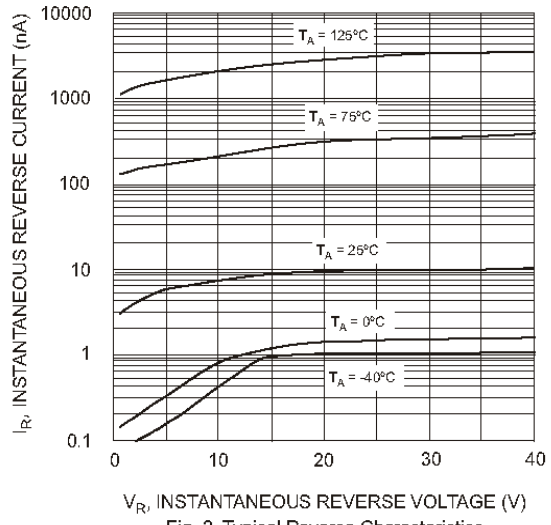


Fig. 2 Typical Reverse Characteristics

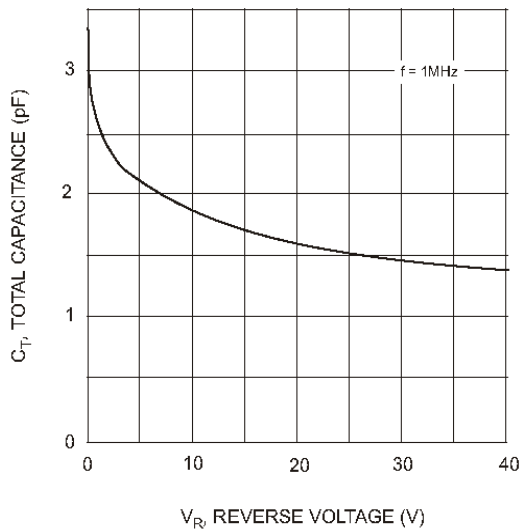


Fig. 3 Typical Capacitance

