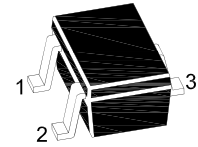
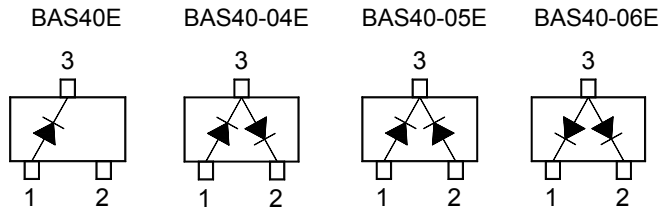


BAS40E / -04E / -05E / -06E

SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low forward voltage
- Fast switching



SOT-523 Plastic Package

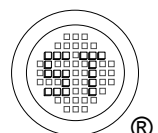
BAS40E	Marking Code: 43
BAS40-04E	Marking Code: 44
BAS40-05E	Marking Code: 45
BAS40-06E	Marking Code: 46

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

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 $t_p \leq 8.3$ ms)	I_{FSM}	600	mA
Power Dissipation	P_d	150	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{Stg}	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 1$ mA	V_F	-	0.38	V
at $I_F = 40$ mA	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



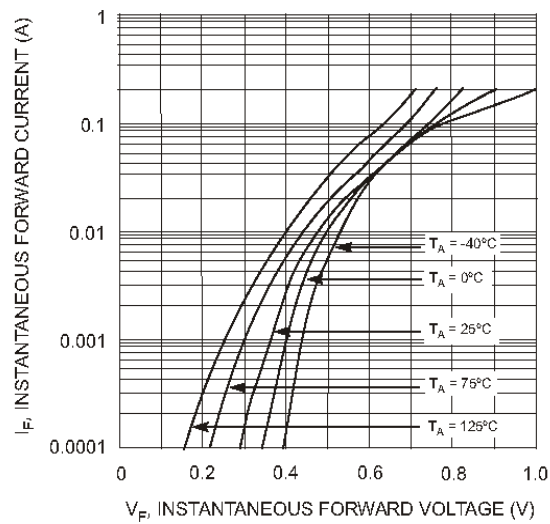


Fig. 1 Typical Forward Voltage

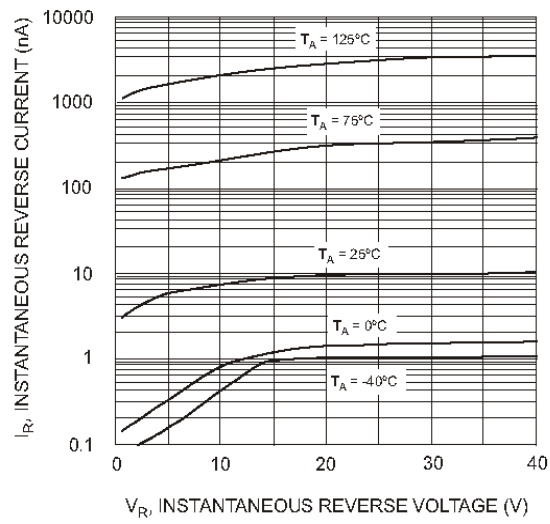


Fig. 2 Typical Reverse Characteristics

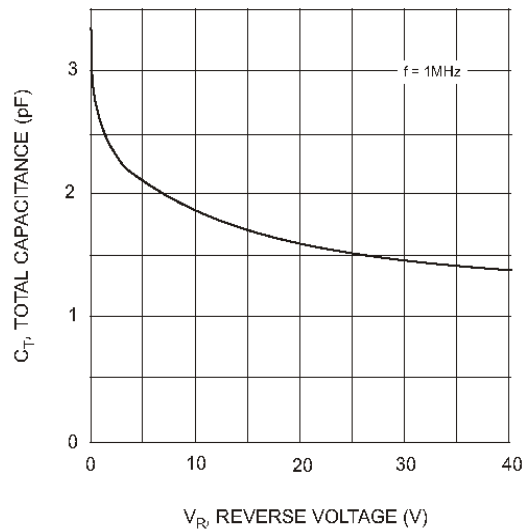


Fig. 3 Typical Capacitance

