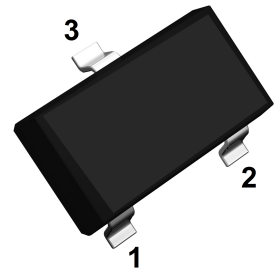


Features

- Low turn-on voltage
- Fast switching
- PN junction guard ring for transient and ESD protection

Applications

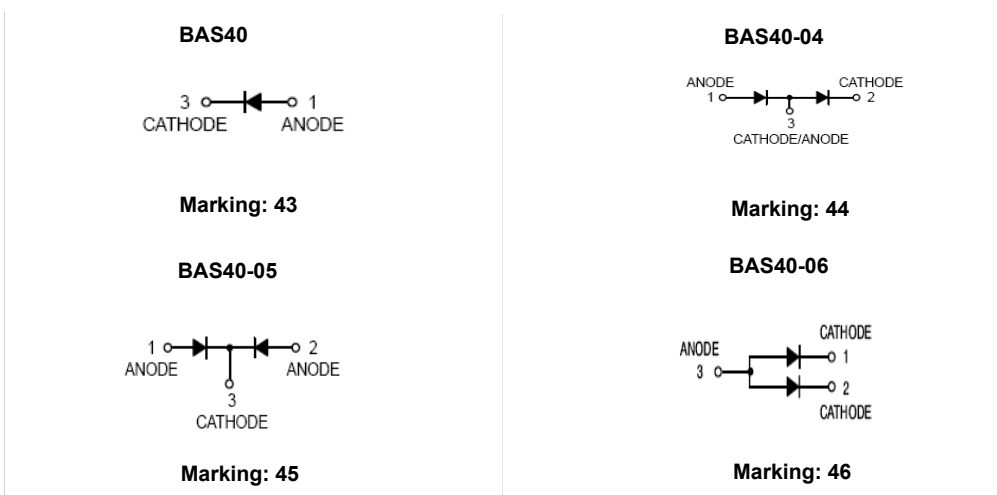
- High speed switching applications
- Circuit protecting
- Voltage clamping



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Schematic Diagram and Marking



Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}		
DC Reverse Voltage	V_R		
Forward Continuous Current	I_{FM}	200	mA
Power Dissipation	P_d	350	mW
Forward Surge Current	I_{FSM}	600	mA
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	357	$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_j	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150	$^\circ\text{C}$

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage	V _{(BR)R}	40	-	-	V	I _{RS} = 10μA
Forward Voltage	V _F	-	-	380 1000	mV	t _P < 300μs, I _F = 1.0mA t _P < 300μs, I _F = 40mA
Reverse Leakage Current	I _R	-	20	200	nA	t _P < 300μs, V _R = 30V
Junction Capacitance	C _j	-	4.0	5.0	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}	-	-	5.0	ns	I _F = I _R = 10mA to I _R = 1.0mA, R _L = 100Ω

Typical Characteristic Curves (T_A = 25°C unless otherwise noted)

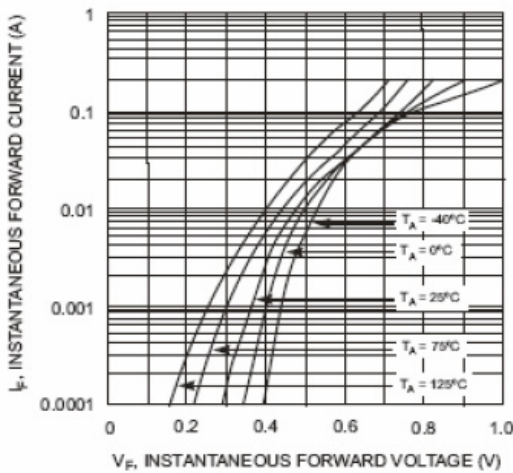


Fig. 1 Typical Forward Voltage

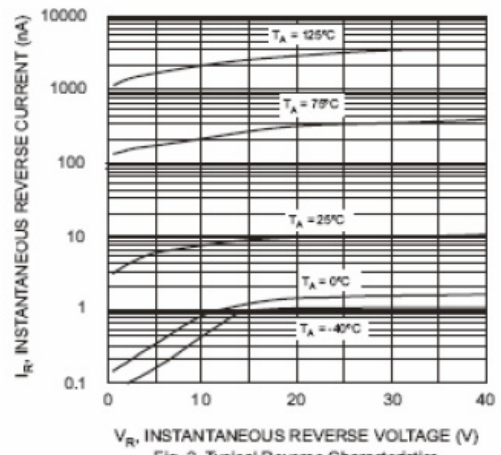


Fig. 2 Typical Reverse Characteristics

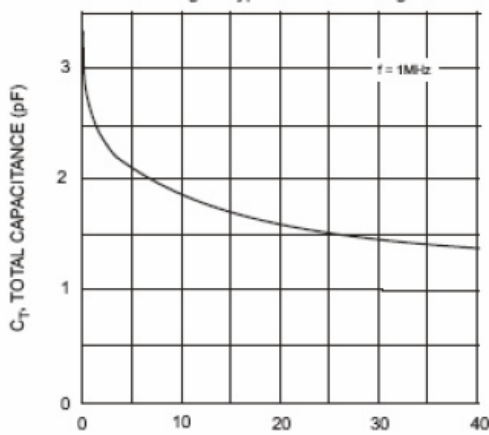


Fig. 3 Typical Capacitance

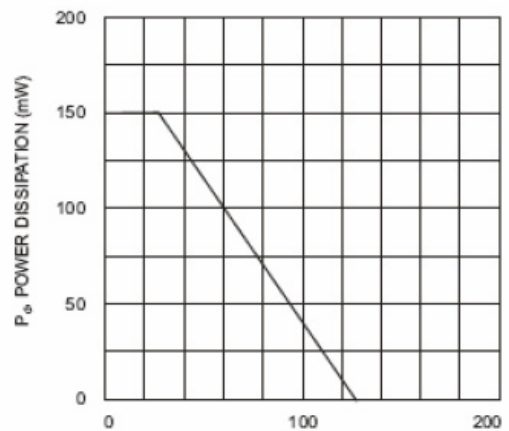
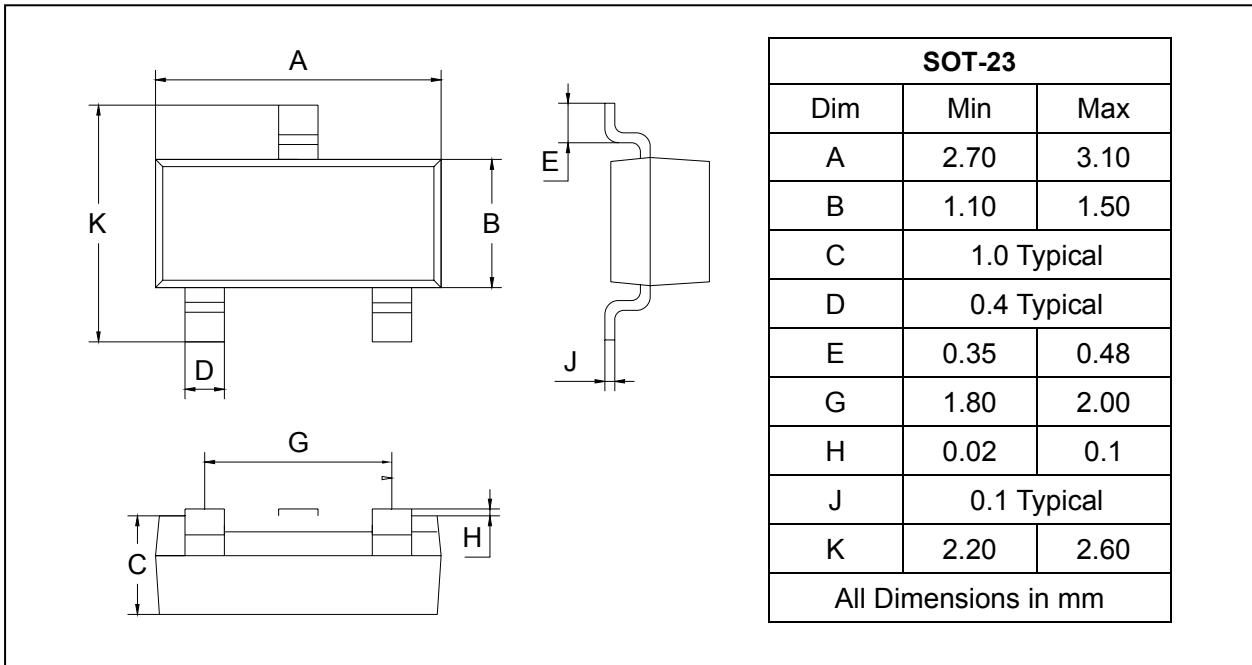


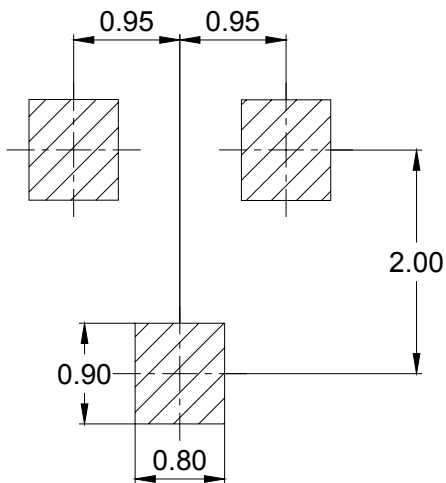
Fig. 4 Power Derating Curve, Total Package

Package Outline Dimensions

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Suggested Soldering Pad



Unit : mm