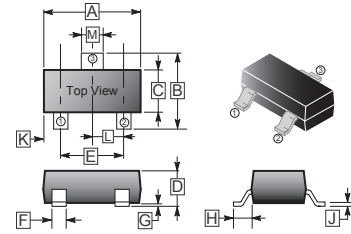


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

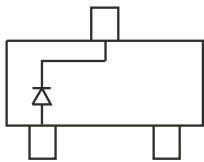
**SOT-523**

**FEATURES**

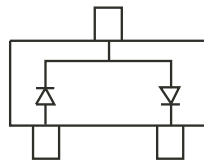
- Low Turn-on voltage
- Fast switching



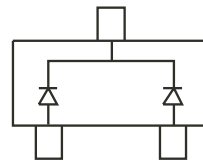
REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.5	1.7	G	-	0.1
B	1.45	1.75	H	0.55 REF.	
C	0.75	0.85	J	0.1	0.2
D	0.7	0.9	K	-	
E	0.9	1.1	L	0.5 TYP.	
F	0.15	0.25	M	0.25	0.325



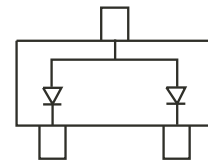
BAS40T Marking: 43



BAS40-04T Marking: 44



BAS40-05T Marking: 45



BAS40-06T Marking: 46

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 25°C ambient temperature unless otherwise specified.

TYPE NUMBER	SYMBOL	VALUES	UNITS
Peak Repetitive Peak reverse voltage	$V_{RRM}$	40	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_{FM}$	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0s	$I_{FSM}$	0.6	A
Average Rectified Output Current	$I_O$	200	mA
Power Dissipation	$P_D$	150	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	833	°C/W
Operating Junction Temperature (Max.)	$T_J$	125	°C
Storage temperature	$T_{STG}$	-65~125	°C

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 25°C ambient temperature unless otherwise specified.

PARAMETERS	SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 10\mu A$	40		V
Forward voltage	$V_F$	$I_F = 1mA$ $I_F = 40mA$		380 1000	mV
Reverse voltage leakage current	$I_R$	$V_R = 30V$		0.2	$\mu A$
Diode capacitance	$C_D$	$V_R = 0, f = 1MHz$		5	pF
Reveres recovery time	$t_{rr}$	$I_F = I_R = 10mA, I_{rr} = 0.1I_R,$ $R_L = 100\Omega$		5	nS

**RATINGS AND CHARACTERISTIC CURVES**

