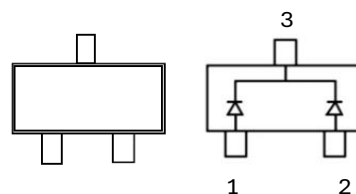


FEATURES AND BENEFITS

Product Summary		
I_{FM}	200mA	@25 °C
V_F	0.38V	@1mA
V_{RRM}	40V	@25 °C

- High Conductance
- Low Current Leakage
- RoHS Compliant / Green EMC UL Flammability Classification Rating 94V-0
- Matte Tin (Sn) Lead finish Solderable per MIL-STD-202, Method 208
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 0.008 grams (Approximate)

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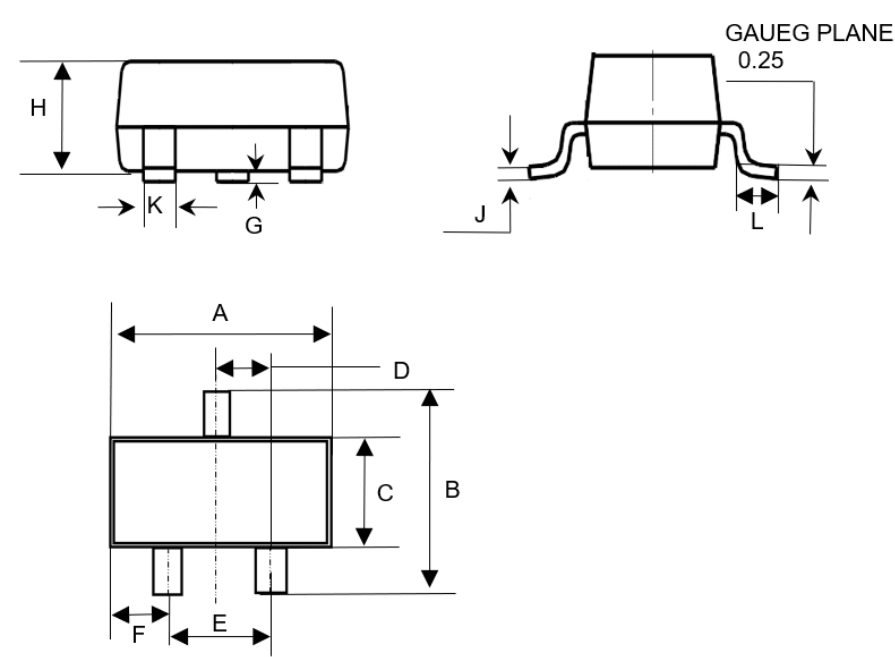
Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Forward Continuous Current	I_{FM}	200	mA
Non-Repetitive Peak Forward Surge Current (@t=1s)	I_{FSM}	0.6	A
Power Dissipation	P_{TM}	200	mW
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55 to 150	°C

THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient*	$R_{\theta JA}$	500	°C/W

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	$I_F = 1mA$		0.38	V
		$I_F = 40mA$		1.0	
Reverse breakdown voltage	V_R	$I_R = 10\mu A$	40		V
Reverse Current	I_R	$V_R = 30V$		200	nA
Typical Junction Capacitance	C_J	$V_R = 0V, f = 1.0MHz$		5	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10mA, I_{rr} = 1mA, R_L = 100\Omega$		5	nS

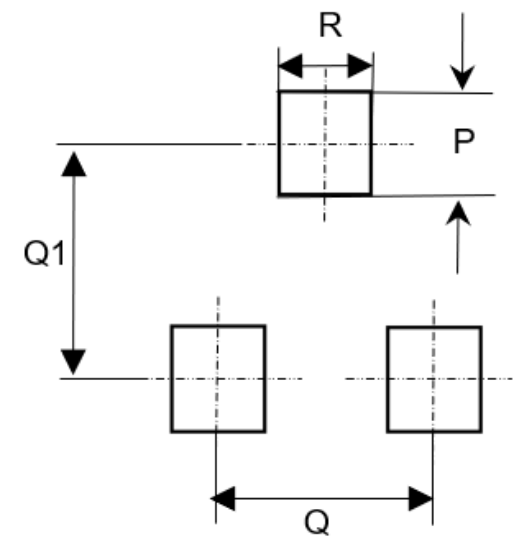
PACKAGE OUTLINE DIMENSIONS

SOT-23



Symbol	MIN	MAX
A	2.800	3.040
B	2.100	2.640
C	1.200	1.400
D	0.890	1.030
E	1.780	2.050
F	0.450	0.600
G	0.013	0.100
H	0.900	1.110
J	0.090	0.180
K	0.370	0.510
Unit: mm		

SUGGESTED PAD LAYOUT

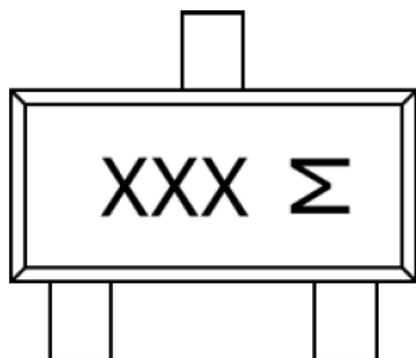


Symbol	Type
Q	1.900
Q1	2.000
P	0.900
R	0.800
Unit: mm	

Land Pattern Recommendation

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BAS40-05	45	3000/7"Reel	Tape & Reel



XXX: Product Marking Code

Σ : Date Code (Rotate 90° counterclockwise)

Odd Year	Even Year
1	E
2	F
3	H
4	J
5	K
6	L
7	N
8	P
9	U
T	X
V	Y
C	Z

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