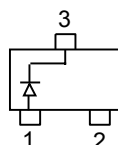


PRIMARY CHARACTERISTICS	
P_D	200mW
V_{RRM}	30V
I_F	200mA
$V_F@I_F=10mA$	0.4V
$T_{J \text{ Max}}$	125°C

FEATURES

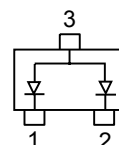
- Extremely fast switching speed
- Low forward voltage
- Moisture Sensitivity Level 1

SOT-323 PACKAGE



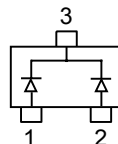
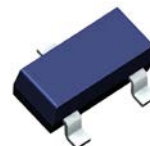
BAT54W

Marking: KL5/B4



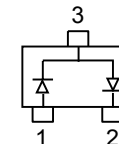
BAT54AW

Marking: KL6/B7



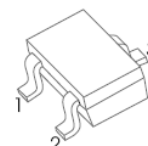
BAT54CW

Marking: KL7/5C



BAT54SW

Marking: KL8/B8



MECHANICAL DATA

- CASE : Transfer Molded,SOT-323
- POLARITY : As Marked
- TERMINALS : Puretin Plated

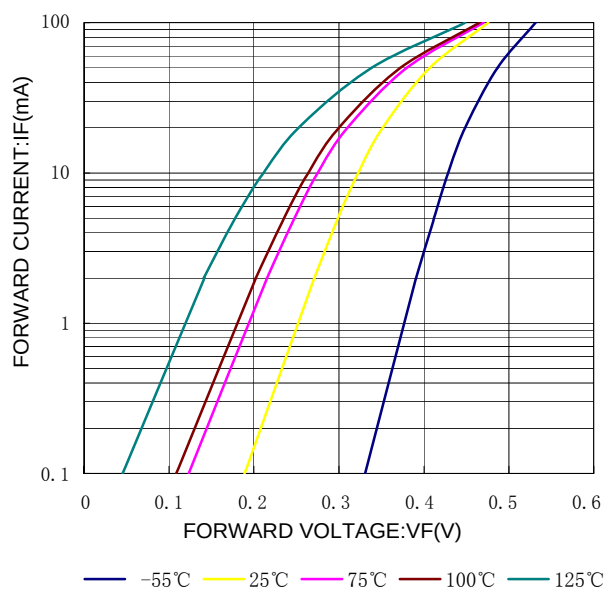
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	Limit	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	200	mA
Forward power dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Operating temperature	T_J	-55~+125	°C
Storage temperature	T_{stg}	-55~+150	°C

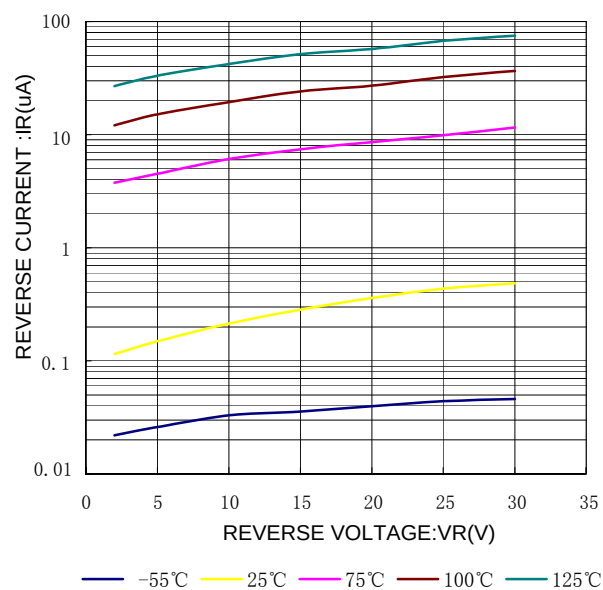
Electrical Ratings @Ta=25°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu A$	30			V
Reverse current	I_R	$V_R=25V$			2	μA
Forward voltage	V_{F1}	$I_F=0.1mA$			0.24	V
	V_{F2}	$I_F=1mA$			0.32	V
	V_{F3}	$I_F=10mA$			0.4	V
	V_{F4}	$I_F=30mA$			0.5	V
	V_{F5}	$I_F=100mA$			1	V
Capacitance between terminals	C_T	$V_R=0V, f=1MHz$			10	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10mA, I_{rr}=0.1*I_R,$ $R_L=100\Omega$			5	ns

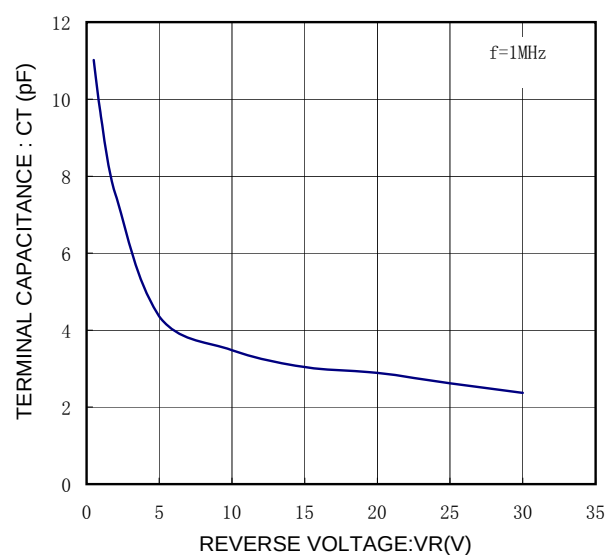
Typical Characteristics



FORWARD CHARACTERISTICS



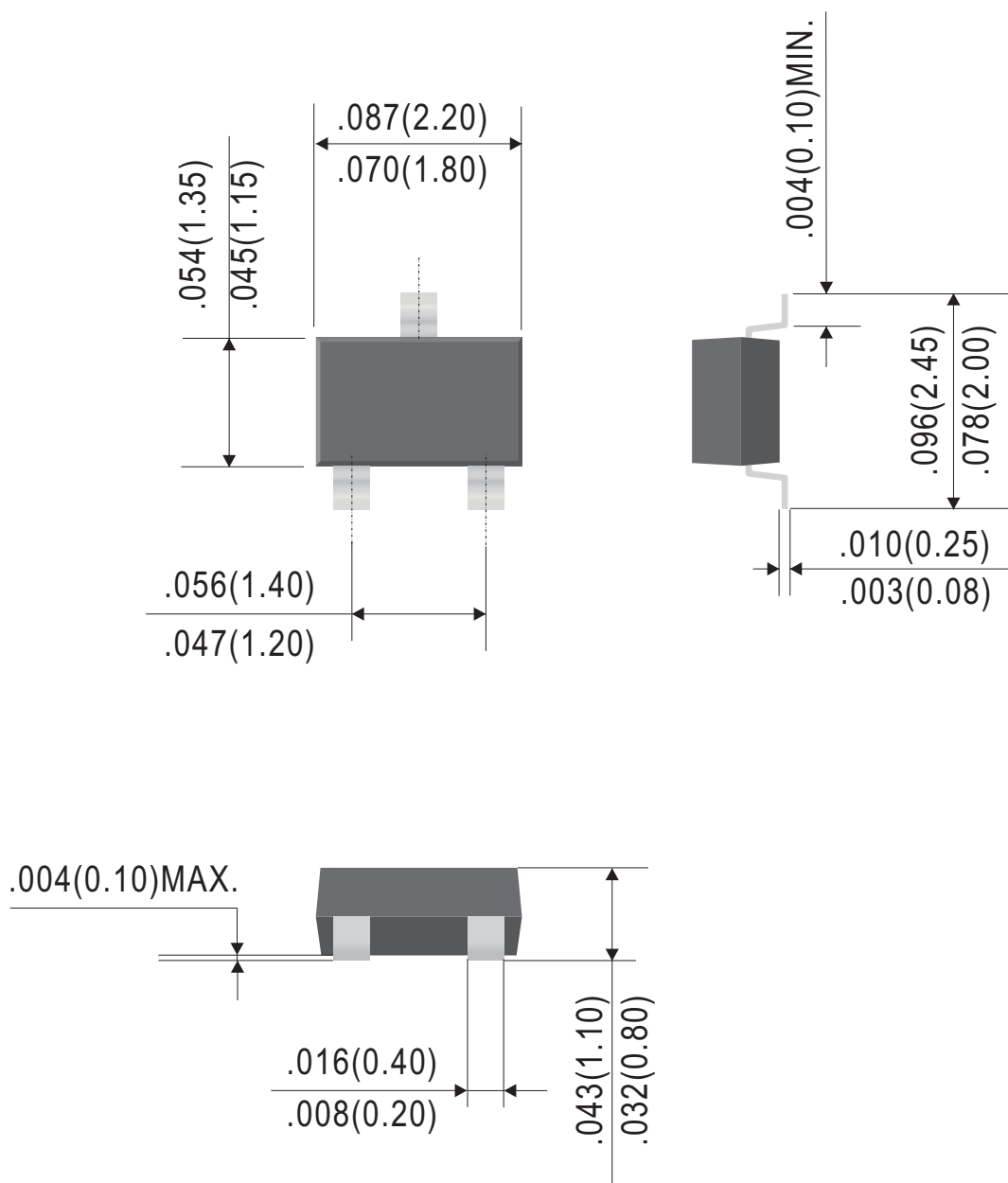
REVERSE CHARACTERISTICS



VR-CT CHARACTERISTICS

Outline Drawing

SOT-323



Dimensions in inches and (millimeters)

Rev.D

Rev.JL03

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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