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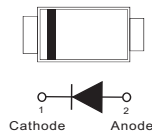
SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

FEATURES

- Low forward voltage : $V_F(3)=0.54V(\text{typ.})$
- Low reverse current : $I_R=5\mu A(\text{typ.})$
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

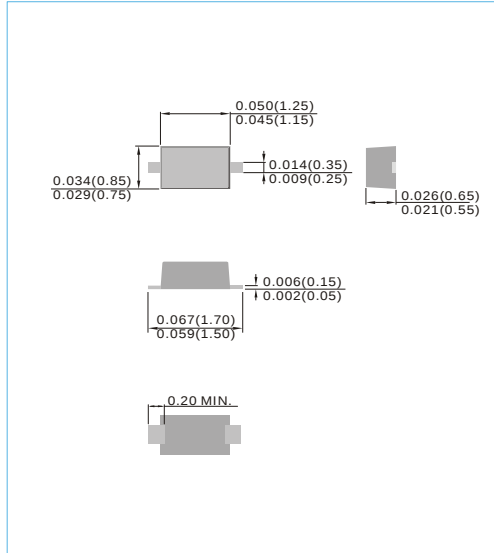
APPLICATIONS

- Case : SOD-523 plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx Weight : 0.00005 ounces, 0.0014 grams
- Marking : 38



SOD-523

Unit : inch(mm)



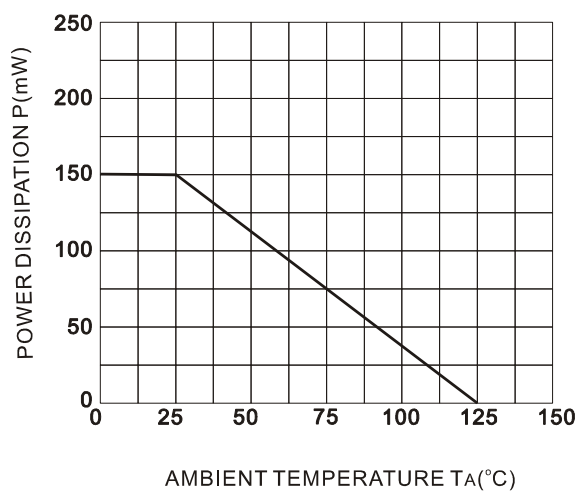
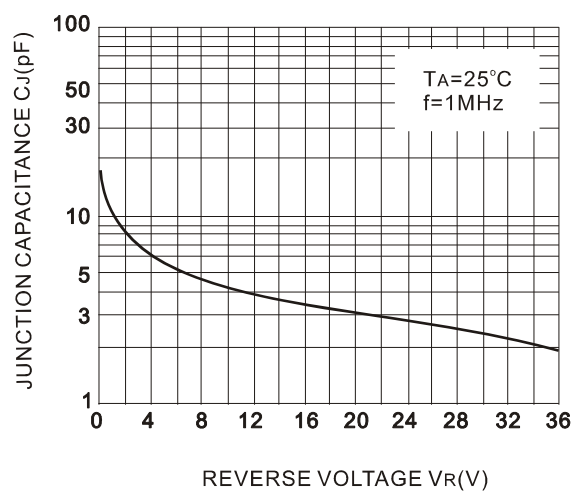
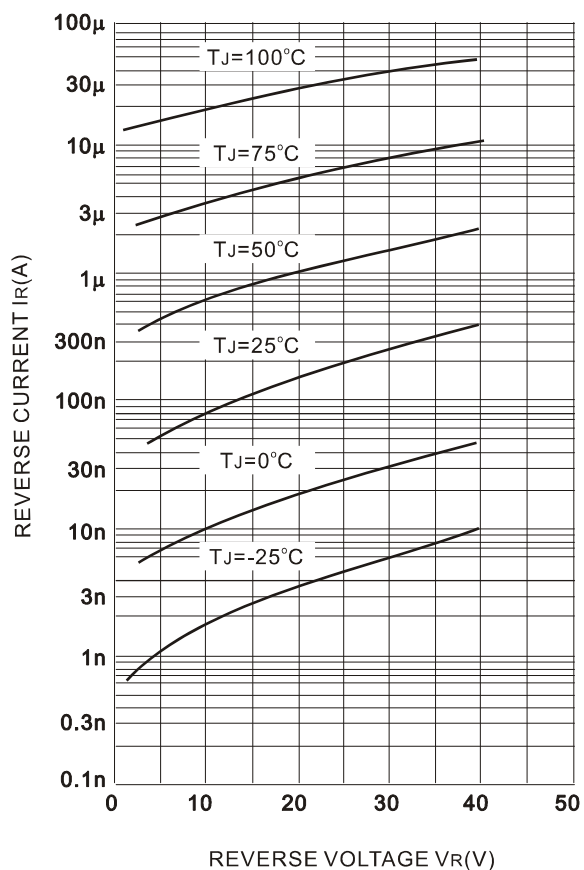
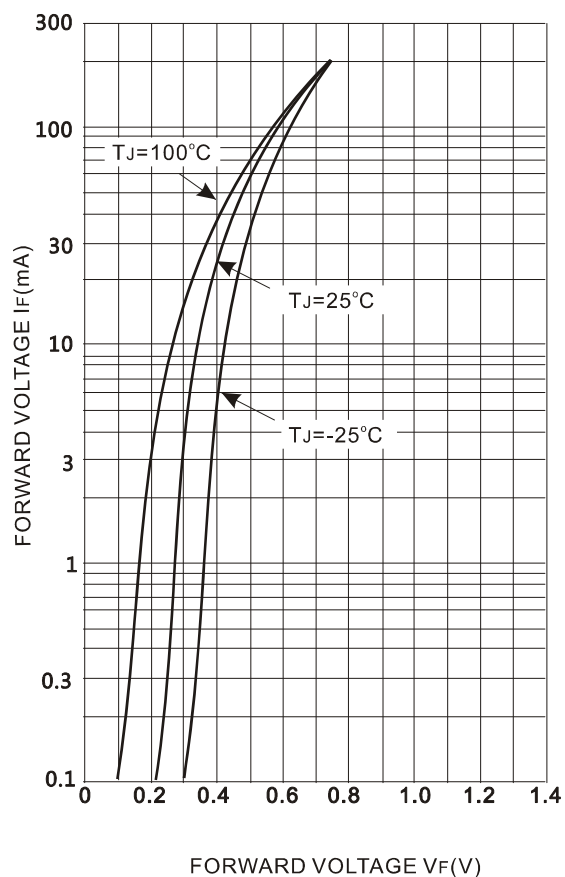
MAXIMUM RATINGS ($T_A=25^\circ C$)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	45	V
Reverse voltage	V_R	40	V
Maximum (peak) forward current	I_{FM}	300	mA
Average forward current	I_O	100	mA
Surge current (10ms)	I_{FSM}	1	A
Power dissipation	P^*	150	mW
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125	$^\circ C$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ C$)

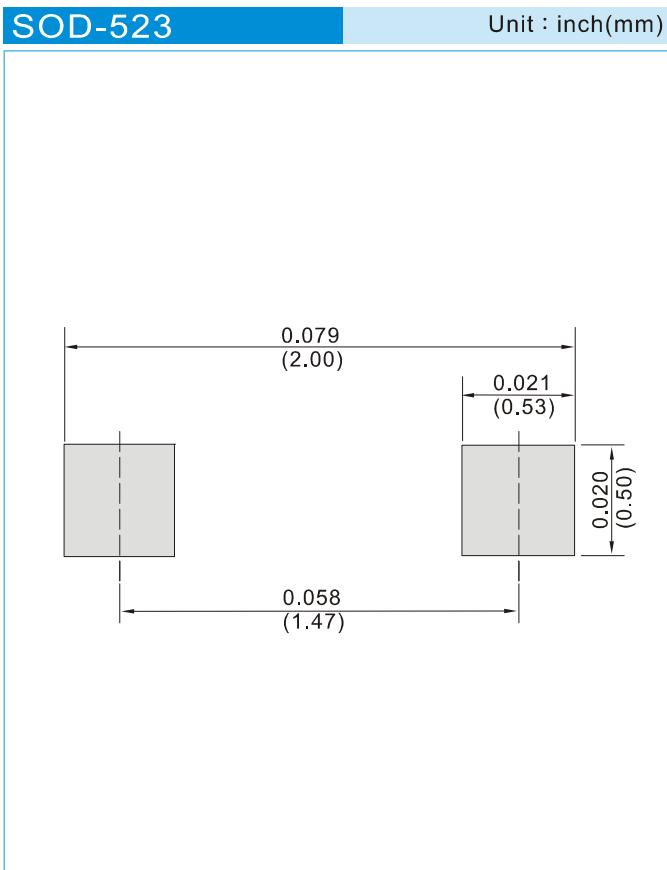
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F(1)$	$I_F=1mA$	-	0.28	-	V
	$V_F(2)$	$I_F=10mA$	-	0.36	-	
	$V_F(3)$	$I_F=50mA$	-	0.54	0.60	
Reverse Current	I_R	$V_R=10V$	-	-	5	μA
Junction Capacitance	C_J	$V_R=0, f=1MHz$	-	18	25	pF

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 12K per 13" plastic Reel
T/R - 5K per 7" plastic Reel

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Part No_packing code_Version

1SS388_R1_00001

1SS388_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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