



RB520S30

SURFACE MOUNT SCHOTTKY DIODES

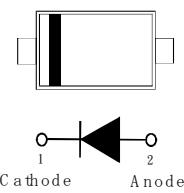
VOLTAGE 30 Volts **CURRENT** 200 mA

FEATURES

- Extremely High Switching Speed
- Surface mount package ideally suited for automatic insertion
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. (Halogen Free)

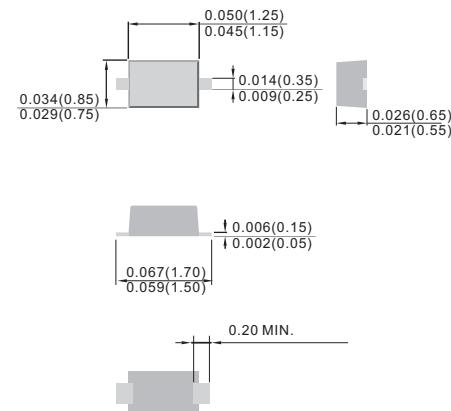
MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight : 0.0014 grams
- Marking : 20



SOD-523

Unit : inch(mm)



ABSOLUTE RATINGS

PARAMETER	Symbol	Value	Units
Peak Reverse Voltage	V_R	30	V
Maximum Forward Current	I_O	0.2	A
Peak Forward Surge Current 1000ms Single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	1	A
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 125	°C

ELECTRICAL CHARACTERISTICS ($T_J = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Leakage Current	I_R	$V_R = 10\text{V}$	-	-	1.0	μA
Forward Voltage	V_{F1}	$I_F = 20\text{mA}$	-	-	0.40	V
Forward Voltage	V_{F2}	$I_F = 200\text{mA}$	-	-	0.60	V
Total Capacitance	C_J	$V_R = 0\text{V}, F = 1\text{MHz}$	-	30	-	pF



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RATING AND CHARACTERISTIC CURVES

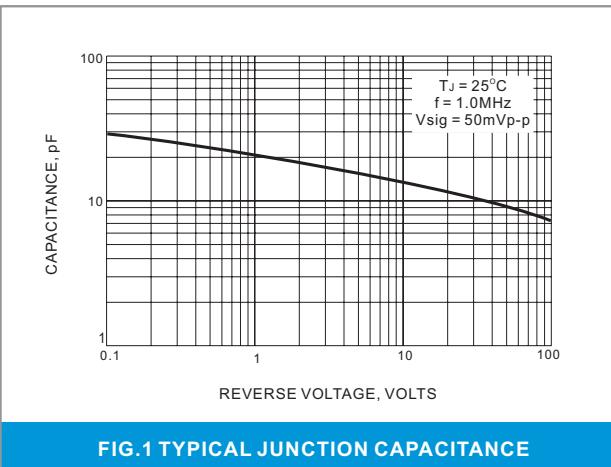


FIG.1 TYPICAL JUNCTION CAPACITANCE

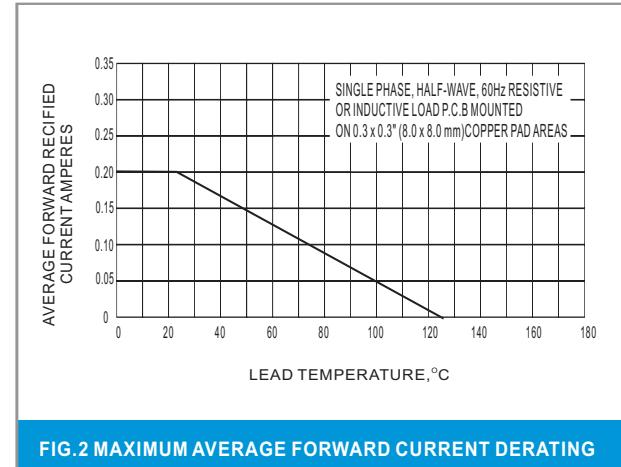


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING

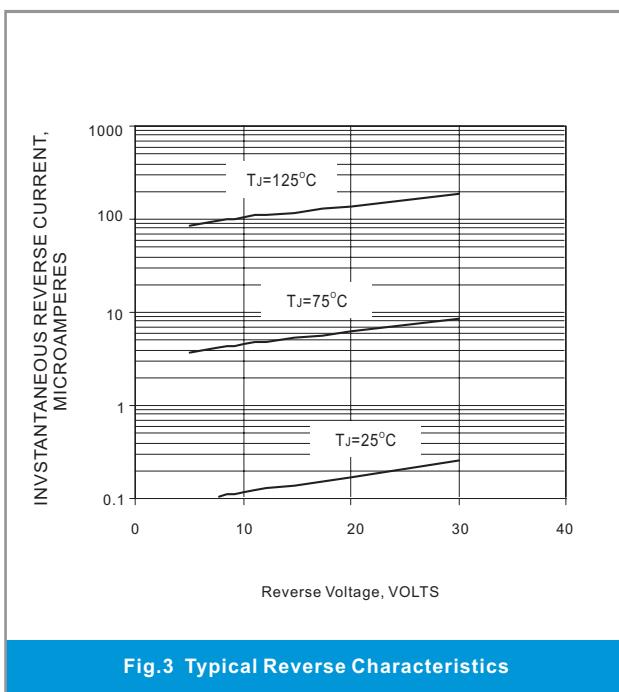


Fig.3 Typical Reverse Characteristics

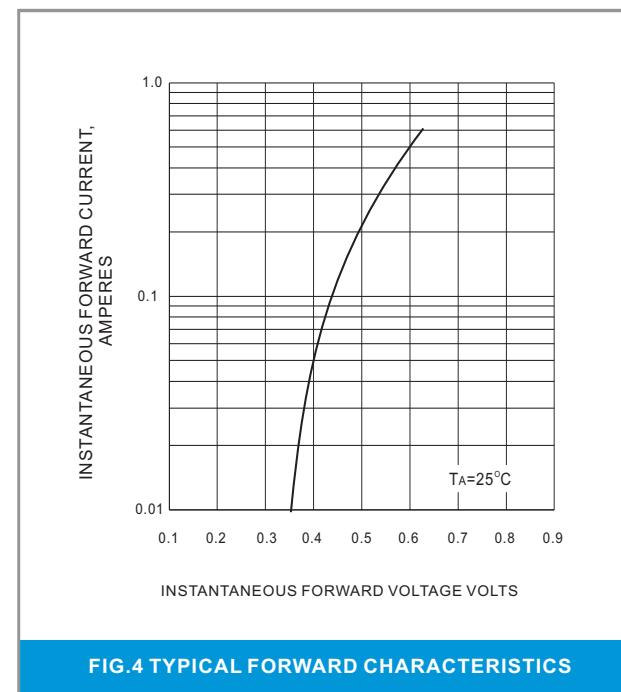


FIG.4 TYPICAL FORWARD CHARACTERISTICS

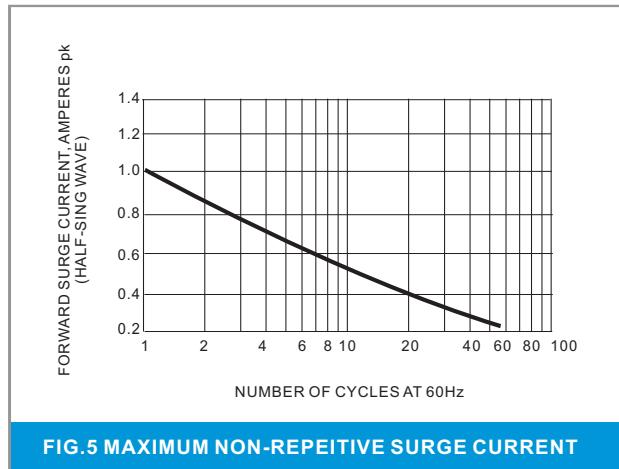
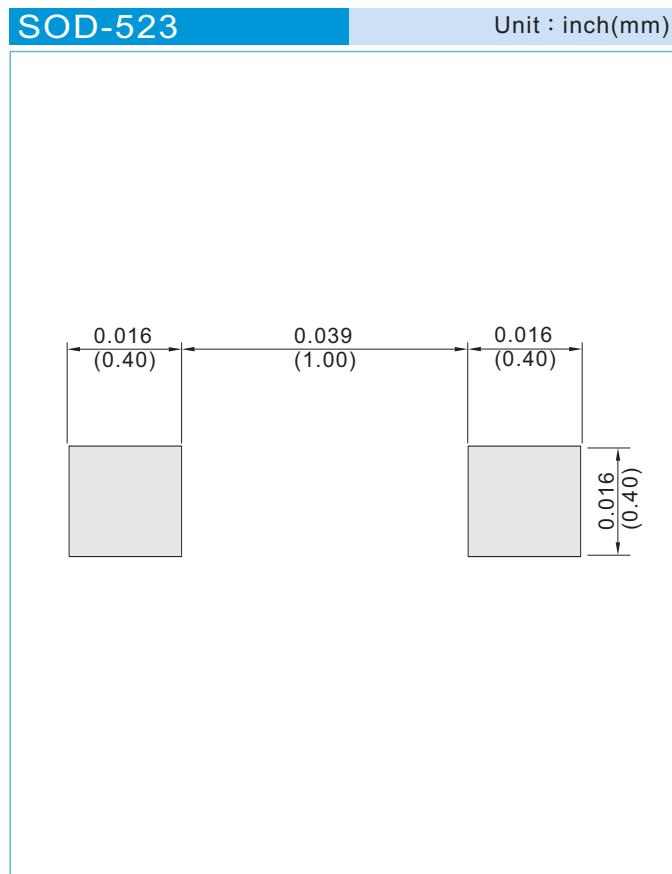


FIG.5 MAXIMUM NON-REPETITIVE SURGE CURRENT



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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

RB520S30_R1_00001

RB520S30_R2_00001

For example :

RB500V-40_R2_00001

- 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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