

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE	30 Volt	POWER	200mA
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FEATURES

- Very Low V_F : 0.36V(Max) at $I_F=2mA$
- Low Capacitance : 3pF(Max) at $V_R=10V$
- Extremely Fast Switching Speed
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case : SOD-323, plastic

Terminals : Solderable per MIL-STD-750,Method 2026

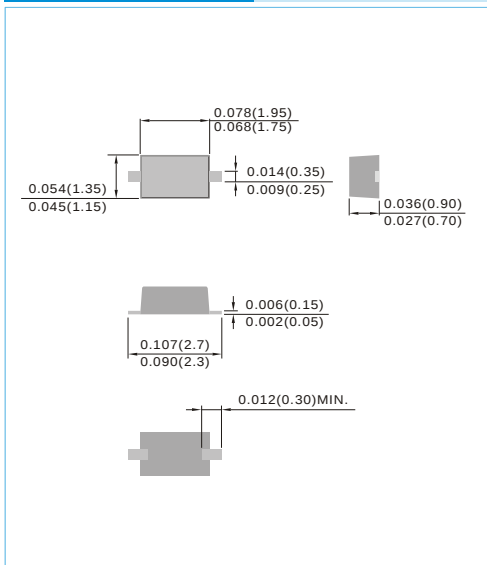
Approx Weight : 0.00014 ounces, 0.0041 grams

Polarity : Color band cathode



SOD-323

Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	VALUE	UNITS
Marking Code	-	S9	-
Maximum Reverse Voltage	V_R	30	V
Peak Reverse Voltage	V_{RRM}	30	V
Maximum Forward Current	I_F	0.2	A
Non-Repetitive Forward Surge Current $t_p=10ms$	I_{FSM}	0.75	A
Power Dissipation (1)	P_{TOT}	200	mW
Thermal Resistance, Junction to Ambient (1)	$R_{\theta JA}$	625	°C/W
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	°C

NOTE : FR-4 Board = 70 x 60 x 1mm.

ELECTRICAL CHARACTERISTICS (each diode)(T_J=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V _(BR)	I _R =10μA	30	-	-	V
Reverse Leakage Current	I _R	V _R =25V	-	-	1	μA
Forward Voltage	V _F	I _F =100mA I _F =2mA I _F =50mA	-	-	0.80 0.36 0.55	V
Total Capacitance	C _J	V _R =10V, f=1.0MHz	-	3	7	pF

ELECTRICAL CHARACTERISTICS CURVE

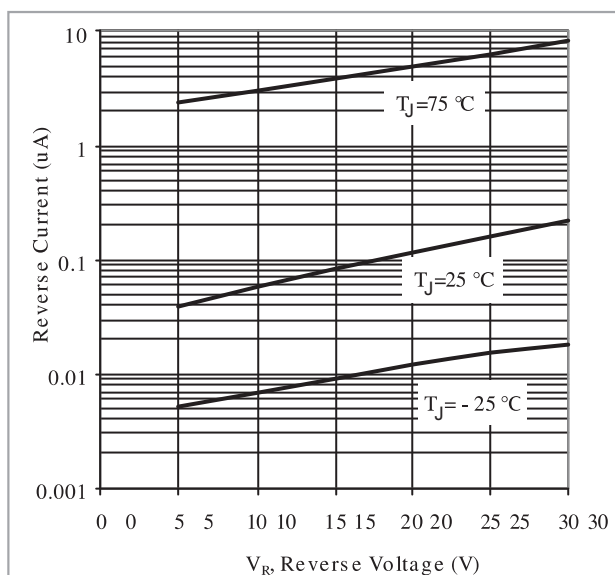


FIG. 1-Typical Reverse Leakage

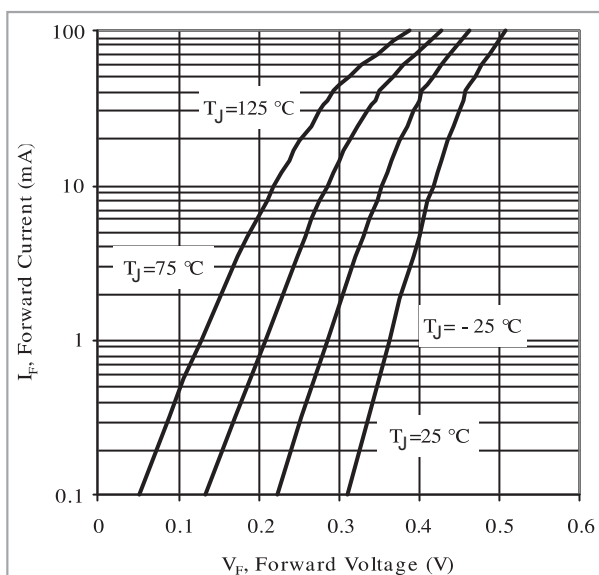


FIG. 2-Typical Forward Voltage

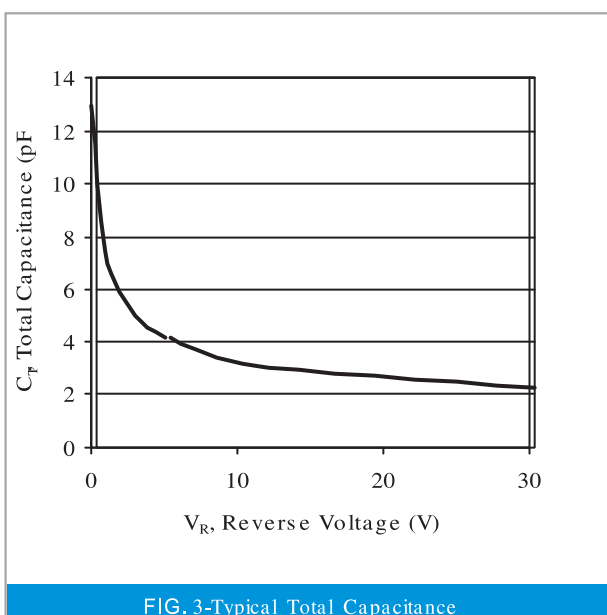
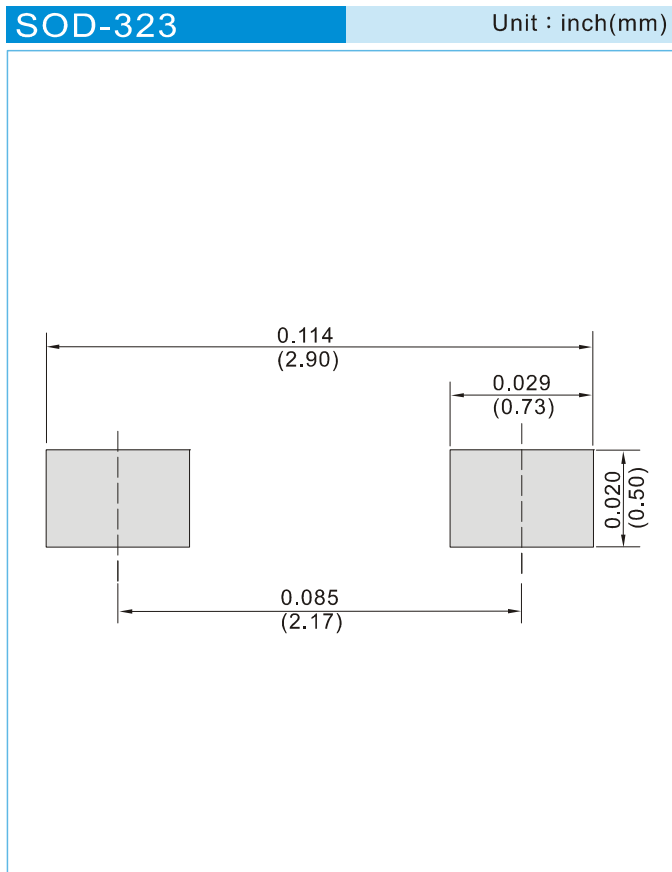


FIG. 3-Typical Total Capacitance

MOUNTING PAD LAYOUT



ORDER INFORMATION

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

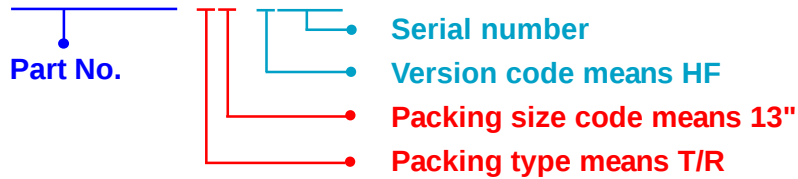
Part No_packing code_Version

SD107WS-AU_R1_000A1

SD107WS-AU_R2_000A1

For example :

RB500V-40 **R2** **00001**



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			