

RB751V-40

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE

40 Volts

CURRENT

300 mA

FEATURES

- Extremely Fast Switching Speed
- Very Low V_F : 0.325V (Typ) at $I_F = 1\text{mA}$
- 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

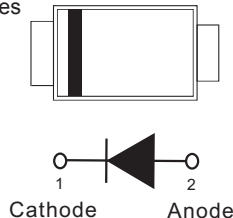
Case: SOD-323, Plastic

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

Appox Weight : 0.0041 grams , 0.00014 ounces

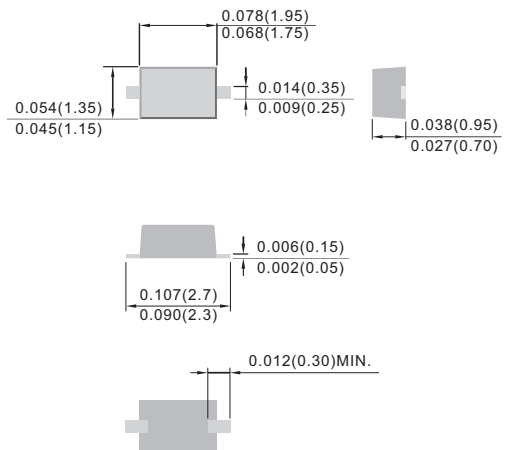
Polarity : Color band cathode

Marking : P60



SOD-323

Unit : inch(mm)



ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Maximum Peak Reverse Voltage	V_{RRM}	40	V
Reverse DC Voltage	V_R	30	V
Maximum Forward Current	$I_F(AV)$	0.3	A
Power Dissipation (Note 1)	P_{TOT}	0.2	W
Peak Forward Surge Current at $t=1000\text{ms}$	I_{FSM}	0.6	A
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 125	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Thermal Resistance, Junction to Ambient ⁽¹⁾	$R_{\theta JA}$	635	$^{\circ}\text{C/W}$

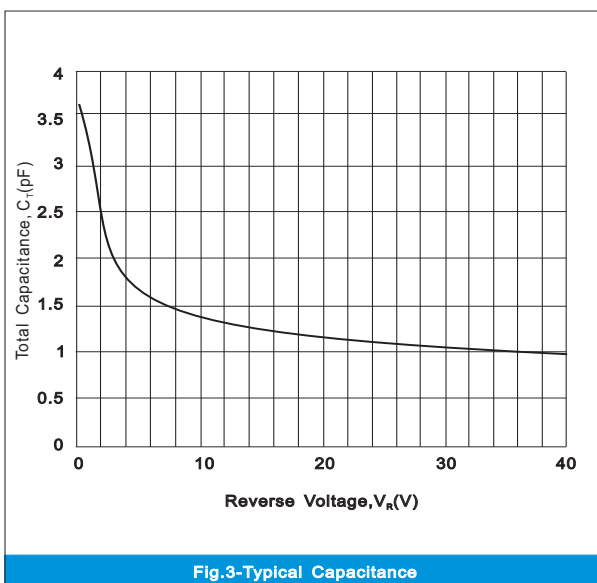
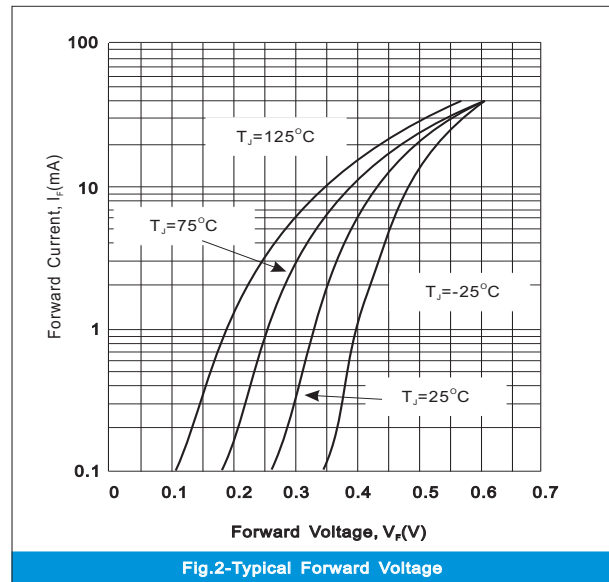
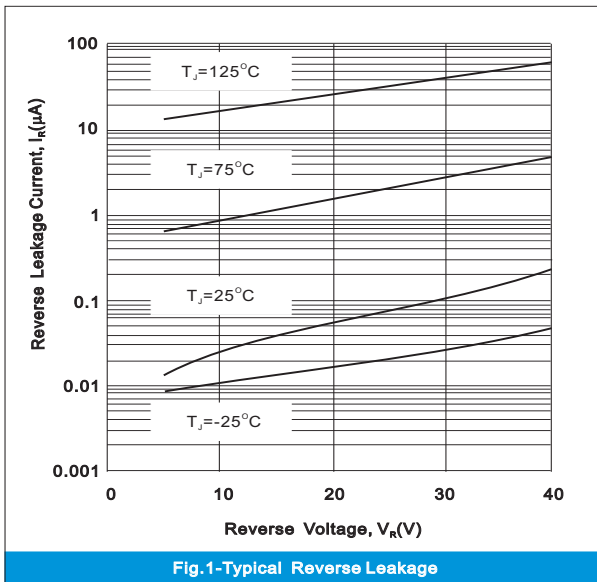
Note : 1. FR-4 Board = 70 x 60 x 1mm. Minmum Pad Layout

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

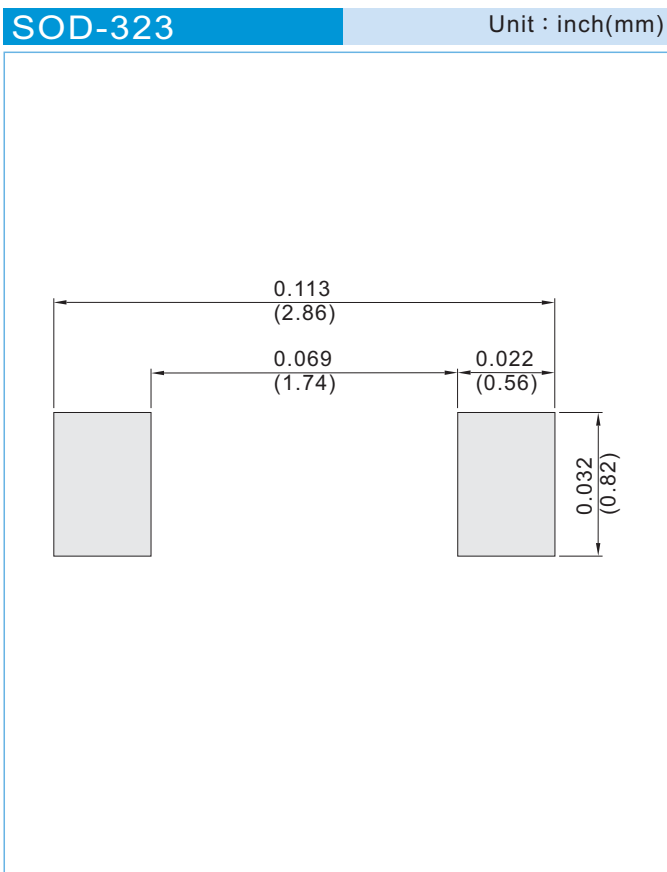
Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Leakage Current	I_R	$V_R = 30\text{V}$	-	-	0.5	μA
Forward Voltage	V_F	$I_F = 1\text{mA}$	-	-	0.37	V
Total Capacitance	C_T	$V_R = 1\text{V}, F = 1\text{MHz}$	-	3	5	pF

ELECTRICAL CHARACTERISTICS CURVE



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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

LEGAL STATEMENT

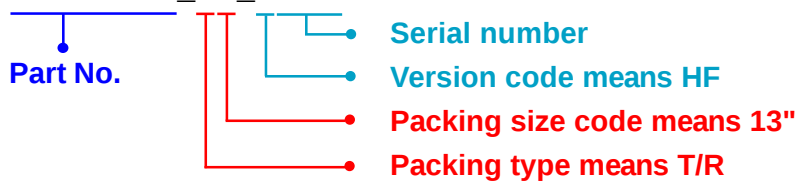
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For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

RB751V-40_R1_00001

RB751V-40_R2_00001