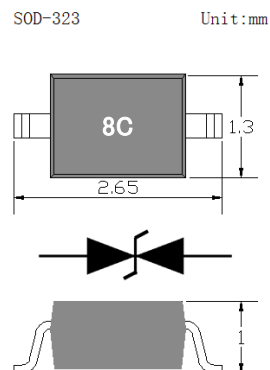


- ◇ For Sensitive ESD Portection
- ◇ ESD Protection, IEC61000-4-2
- ◇ RoHS compliant / Green EMC
- ◇ SOD323-GW Thin SMD package
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking
- ◇ Device Marking Code



Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
$V_{\text{ESD-Air}}$	ESD Voltage IEC61000-4-2 Air	± 30	kV
$V_{\text{ESD-contact}}$	ESD Voltage IEC61000-4-2 Contact	± 30	kV
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-55 to +150	°C
Ppp	Peak Pulse Power (tp=8/20 μ s waveform)	350	W
$I_{\text{PP}*1}$	Maximum Reverse Peak Pulse Current	7	A

*1 $t_p = 8/20 \mu s$

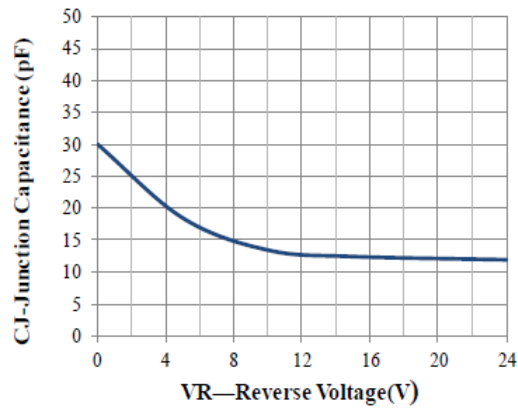
Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_{RWM}	Reverse Working Peak Voltage	-			24.0	V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	26.5		31	V
I_R	Reverse Current	$V_{\text{RWM}} = 24\text{V}$			1	μA
V_C	Clamping Voltage	$I_{\text{pp}}=1\text{A}, t_p = 8/20 \mu s$			35	V
V_C	Clamping Voltage	$I_{\text{pp}}=7\text{A}, t_p = 8/20 \mu s$			50	V
Ctot	Total capacitance	$V_R=0\text{V}, f=1\text{MHz}$			30	pF

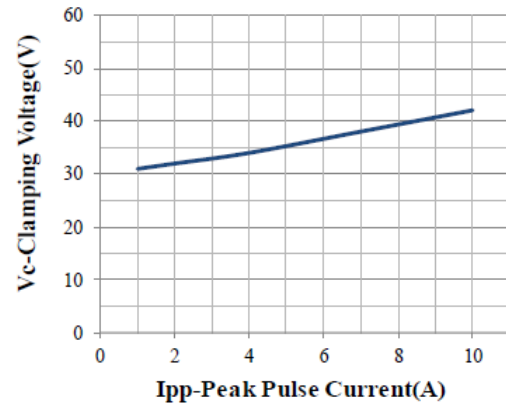
Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
MBV24C	SOD323	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive	

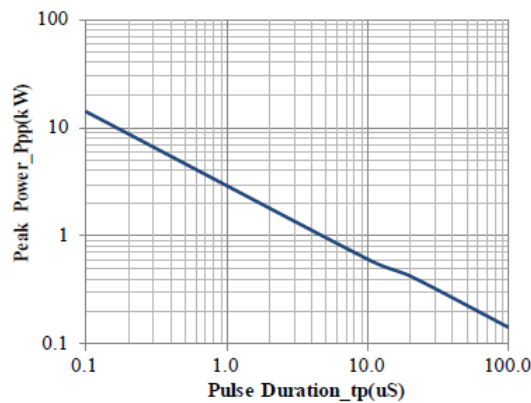
Typical Performance Characteristics (TA=25° C unless otherwise Specified)



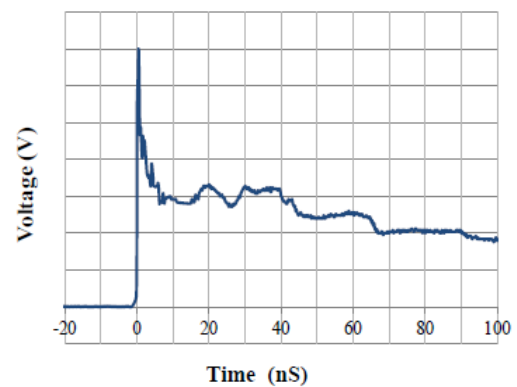
Junction Capacitance vs. Reverse Voltage



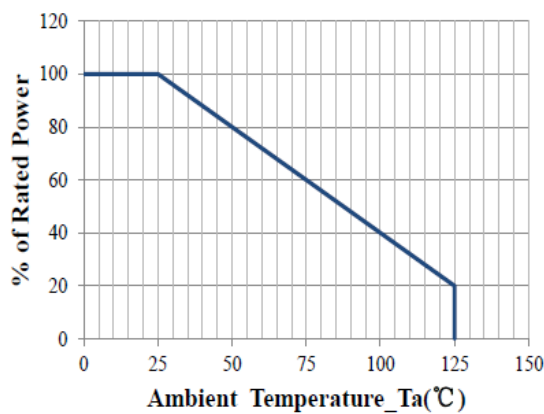
Clamping Voltage vs. Peak Pulse Current



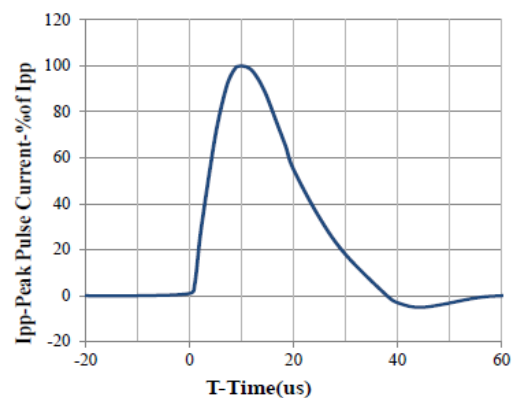
Peak Pulse Power vs. Pulse Time



IEC61000-4-2 Pulse Waveform



Power Derating Curve

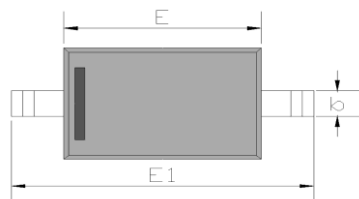


8 X 20us Pulse Waveform

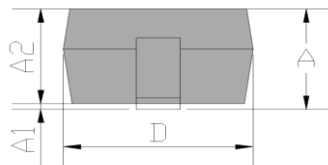
Package Dimensions

Package outline : SOD-323

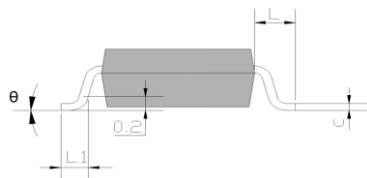
Top View



Side View



Front View



Soldering Pattern

Symbol	Dimensions in mm	
	Min.	Max.
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475 REF.	
L1	0.250	0.400
θ	0°	8°

Notice:

- 2. Lead plating: Pb free solder
- 3. Lead thickness includes solder plating
- 4. Other Tolerance: ± 0.05
- 5. Unit: mm