

FEATURES

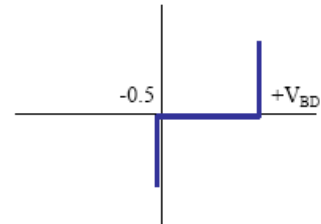
- (16kV) IEC 61000-4-2 rating
- Surface Mount Package
- High component Density
- **Color band denotes cathode end



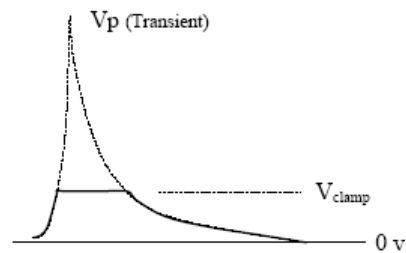
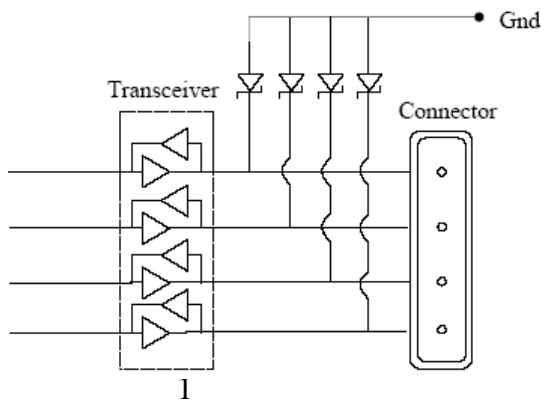
SOD - 323

APPLICATIONS

- ESD Suppression
- Transient Suppression
- Automotive CAN bus

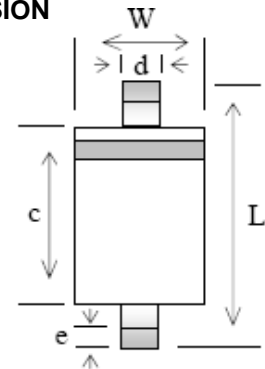
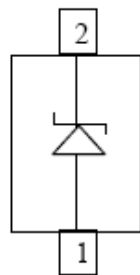


APPLICATION



FUNCTIONAL BLOCK DIAGRAM

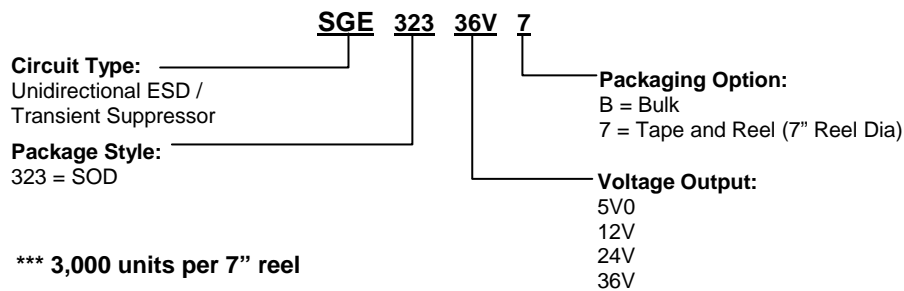
PACKAGE DIMENSION



Dimensions in (mm):

Package Code	Package Power	Number of Pins	L ± 0.2	W ± 0.2	c ± 0.2	e ± 0.1	Pkg. Height ± 0.05	d ± 0.05
323	100mw	2	2.5	1.25	1.7	0.3	1.0	0.35

ORDERING INFORMATION





ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Symbol	Parameter	Value	Units
TOP	Operating temperature	-55 to +125	°C
VF	Forward voltage	1.3	Volts @ IFM
IFM	Maximum continuous forward current	150	mA

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

36V Characteristic

Symbol	Characteristic	Min	Typ	Max	Units	Test Condition
VBD	Diode breakdown voltage	39			V	IF = 1 ma
Vw	Working voltage			36	V	
IL	Leakage current			1.0	uA	36v
CT	Capacitance		25		pF	@ 1Mhz
VPV	Peak ESD voltage capability			16	kV	IEC 61000-4-2
Ipp	Pulse current			1	A	8 / 20 us

24V Characteristic

Symbol	Characteristic	Min	Typ	Max	Units	Test Condition
VBD	Diode breakdown voltage	27			V	IF = 1 ma
Vw	Working voltage			24	V	
IL	Leakage current			1.0	uA	24v
CT	Capacitance		30		pF	@ 1Mhz
VPV	Peak ESD voltage capability			16	kV	IEC 61000-4-2
Ipp	Pulse current			2.2	A	8 / 20 us

12V Characteristic

Symbol	Characteristic	Min	Typ	Max	Units	Test Condition
VBD	Diode breakdown voltage	15			V	IF = 1 ma
Vw	Working voltage			12	V	
IL	Leakage current			1.0	uA	12v
CT	Capacitance		50		pF	@ 1Mhz
VPV	Peak ESD voltage capability			16	kV	IEC 61000-4-2
Ipp	Pulse current			2.5	A	8 / 20 us

5V0 Characteristic

Symbol	Characteristic	Min	Typ	Max	Units	Test Condition
VBD	Diode breakdown voltage	6.0			V	IF = 1 ma
Vw	Working voltage			12	V	
IL	Leakage current			2.0	uA	5v
CT	Capacitance		80		pF	@ 1Mhz
VPV	Peak ESD voltage capability			16	kV	IEC 61000-4-2
Ipp	Pulse current			5.0	A	8 / 20 us