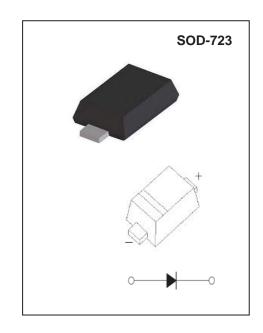




High Speed Switching Diode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, resistive or inductive load.



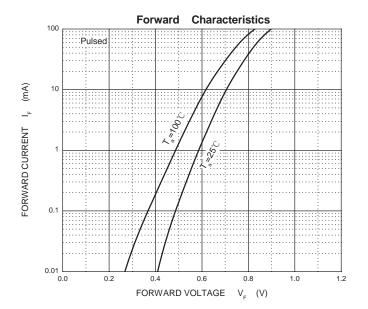
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

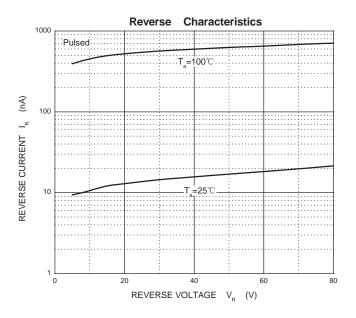
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	90	V
DC Blocking Voltage	V _R	80	V
Forward Continuous Current	I _{FM}	225	mA
Average Rectified Output Current	Io	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Typical Current Square Time	I ² T	0.02	A ² s
Power Dissipation	Pd	100	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	1250	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	T _{STG}	-55~+150	°C

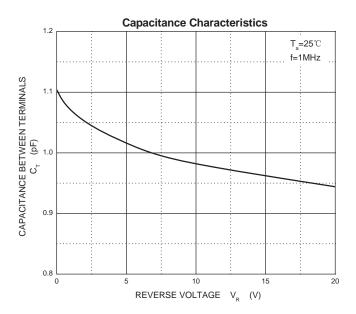
Electrical Ratings @Ta=25℃

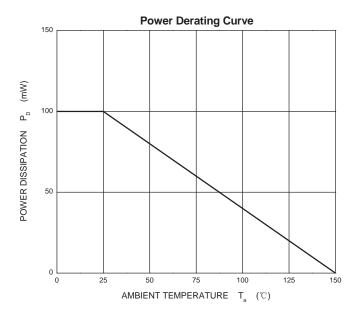
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Forward voltage	V _F			1.2	V	I _F =100mA
Reverse current	I _R			0.1	μА	V _R =80V
Capacitance between terminals	Ст			3.0	pF	V _R =0.5V, f=1MHZ
Reverse recovery time	t _{rr}			4	ns	$V_R=6V,I_F=10mA,R_L=100\Omega$

RATING AND CHARACTERISTICS CURVES (1SS400G)



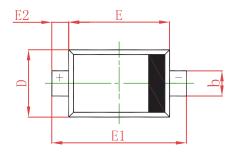


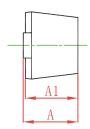


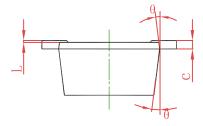




SOD-723 Package Outline Dimensions

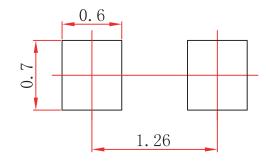






Symbol	Dimensions	In Millimeters	Dimensions In Inches				
	Min	Max	Min	Max			
А	0.525	0.650	0.021	0.026			
A1	0.515	0.580	0.020	0.023			
b	0.250	0.350	0.010	0.014			
С	0.080	0.150	0.003	0.006			
D	0.550	0.650	0.022	0.026			
E	0.900	1.100	0.035	0.043			
E1	1.300	1.500	0.051	0.059			
E2	0.200	REF	0.008 REF				
L	0.010	0.070	0.001	0.003			
θ	7° F	REF	7° REF				

SOD-723 Suggested Pad Layout



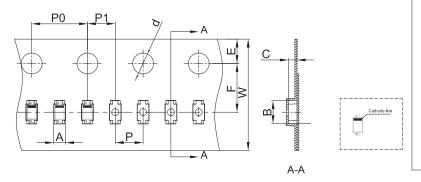
Note:

- 1. Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.



SOD-723 Tape and Reel

SOD-723 Embossed Carrier Tape



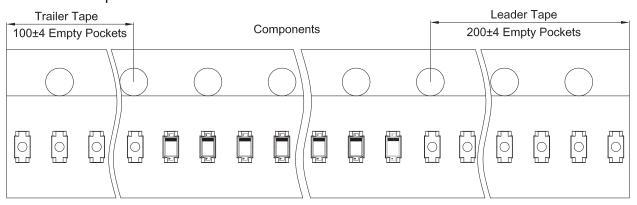
Packaging Description:

SOD-723 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 8,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

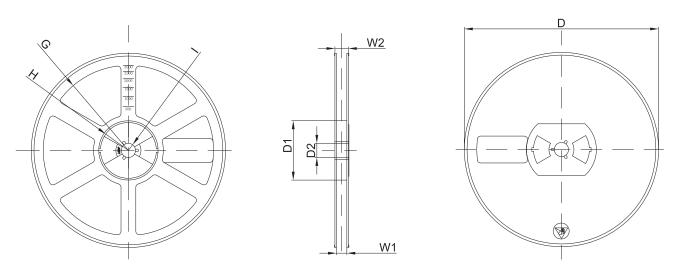
Note:If it is the product of the same polarity ,the cathode line should be removed.

Dimensions are in millimeter										
Pkg type A B C d E F P0 P P1								W		
SOD-723	0.73	1.71	0.62	Ø1.50	1.75	3.50	4.00	2.00	2.00	8.00

SOD-723 Tape Leader and Trailer



SOD-723 Reel



Dimensions are in millimeter											
Reel Option		D	D1		D2 G		H I		W1		W2
7"Dia		Ø178.00	54.40		13.00 R78.00		R25.60	R6.50	R6.50 9.50		12.30
REEL	R	eel Size	Box		Box Size(mm)		Carton	Carton Siz	Carton Size(mm)		G.W.(kg)
8000 pcs		7 inch	120,000 pcs	3	203×203×195		480,000 pcs	438×438	438×438×220		



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