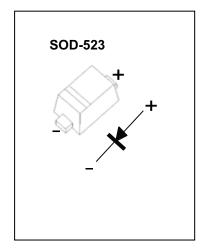




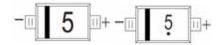
SCHOTTKY BARRIER DIODE

FEATURES

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability
- P/N suffix V means AEC-Q101qualified, e.g:RB751S-40V
- P/N suffix V means Halogen-free



MARKING: 5



The marking bar indicates the cathode

Solid dot = Green molding compound device,if none,
the normal device.

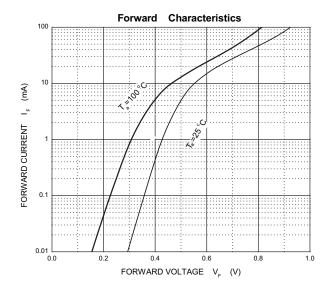
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

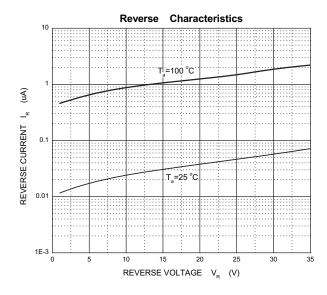
Parameter	Symbol	Limit	Unit
Peak reverse voltage	V _{RM}	40	V
DC reverse voltage	V _R	30	V
Mean rectifying current	lo	250	mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	I _{FSM}	2.0	А
Typical Current Squared Time	l²t	0.017	A ² S
Power dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	667	°C/W
Junction temperature	Tj	125	℃
Storage temperature	T _{stg}	-55~+150	℃

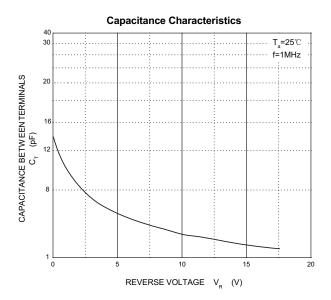
Electrical Ratings @Ta=25℃

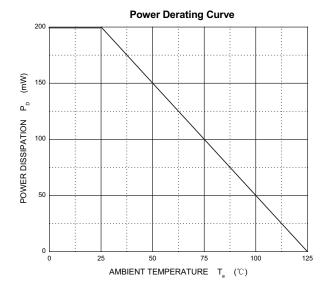
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Forward voltage	V _F			0.37	V	I _F =1mA
Reverse current	I _R			0.5	μA	V _R =30V
Capacitance between terminals	Ст		6		pF	V _R =10V,f=1MHZ

RATING AND CHARACTERISTICS CURVES (RB751S-40V)



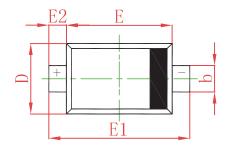


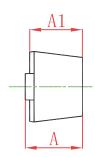


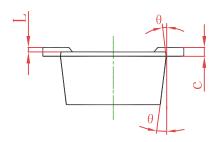




SOD-523 Package Outline Dimensions

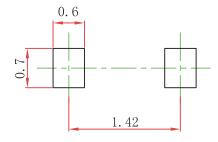






Symbol	Dimensions	In Millimeters	Dimensions In Inches			
Symbol	Min	Max	Min	Max		
А	0.510	0.770	0.020	0.031		
A1	0.500	0.700	0.020	0.028		
b	0.250	0.350	0.010	0.014		
С	0.080	0.150	0.003	0.006		
D	0.750	0.850	0.030	0.033		
E	1.100	1.300	0.043	0.051		
E1	1.500	1.700	0.059	0.067		
E2	0.200	REF	0.008	REF		
L	0.010	0.070	0.001	0.003		
θ	7° F	REF	7° F	REF		

SOD-523 Suggested Pad Layout

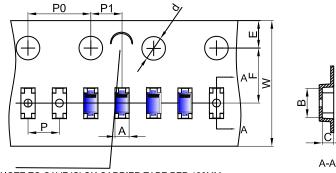


Note:

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

SOD-523 Tape and Reel

SOD-523 Embossed Carrier Tape



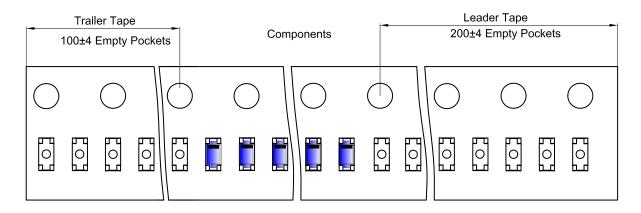
Packaging Description:

SOD-523 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).

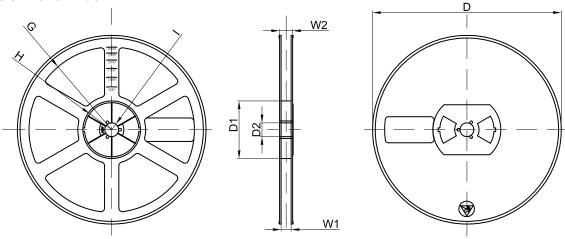
NOTE:TO	CAVEIC	' ON C	APRIFR	TAPE	PER	1201/11/1
NOIE.IO	CAVE	ON	AUVIEV	IAFE		I Z U I V I I V I

Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
SOD-523	0.9	1.94	0.73	Ø1.50	1.75	3.50	4.00	2.00	2.00	8.00

SOD-523 Tape Leader and Trailer







Dimensions are in millimeter									
Reel Option	D	D1	D2	G	Н	I	W1	W2	
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30	

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
8000 pcs	7 inch	120,000 pcs	203×203×195	480,000 pcs	438×438×220	

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