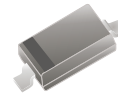


ABAS40WS-HF

RoHS Device
Halogen Free



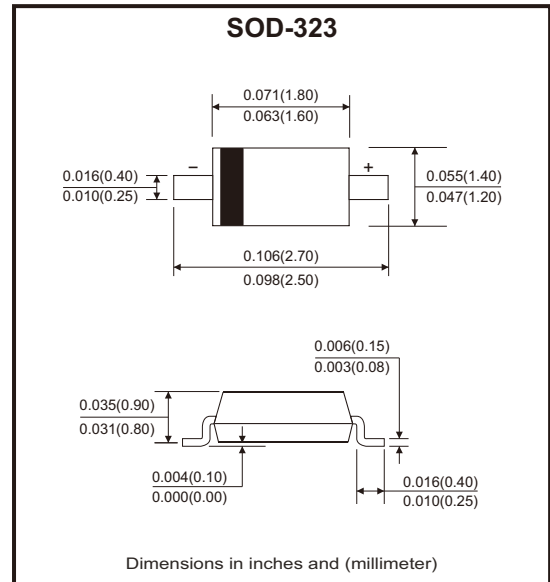
Features

- Low turn-on voltage.
- AEC-Q101 Qualified.

Mechanical data

- Case: SOD-323, molded plastic.
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102.
- Polarity: Cathode line denotes the cathode end.

Circuit Diagram



Maximum Rating (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	40	V
Average forward current	I_o	200	mA
Peak forward surge current @Square wave tp < 10ms	I_{FSM}	0.6	A
Power dissipation	P_D	250	mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	500	K/W
Operating junction temperature range	T_J	-55 to +150	°C
Storage temperature range	T_{STG}	-55 to +150	°C

Electrical Characteristics (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 1mA$			0.37	V
		$I_F = 10mA$			1	
Reverse current	I_R	$V_R = 30V$			0.5	μA
Reverse breakdown voltage	V_{BR}	$I_R = 10\mu A$	40			V
Junction capacitance	C_J	$V_R = V_F = 0V, f = 1MHz$			5	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 5mA, I_{rr} = 0.1 \times I_R, R_L = 100\Omega$			5	ns

Typical Rating and Characteristic Curves (ABAS40WS-HF)

Fig.1 - P_D — T_A

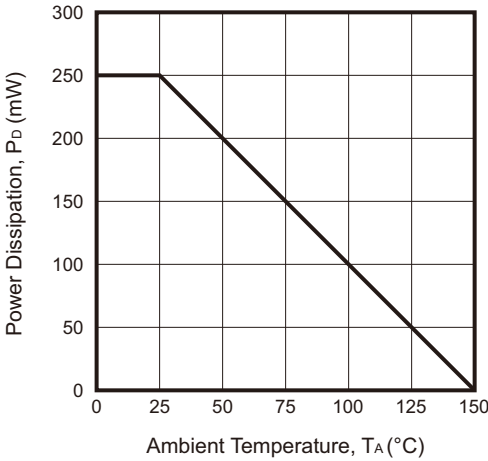


Fig.2 - Capacitance Characteristics

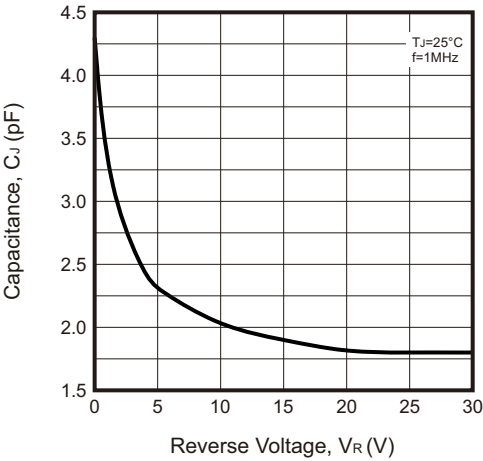


Fig.3 - Forward Characteristics

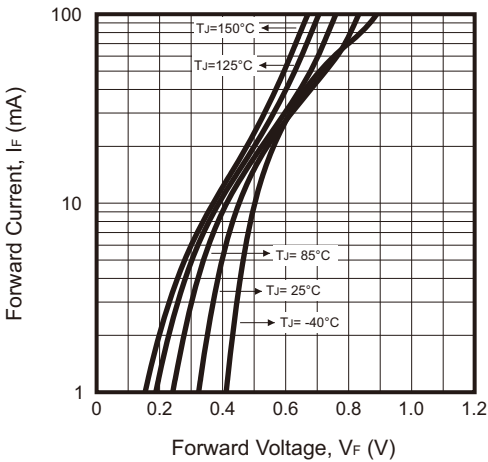
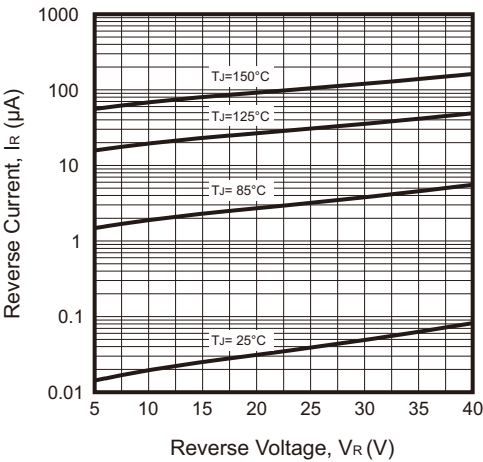
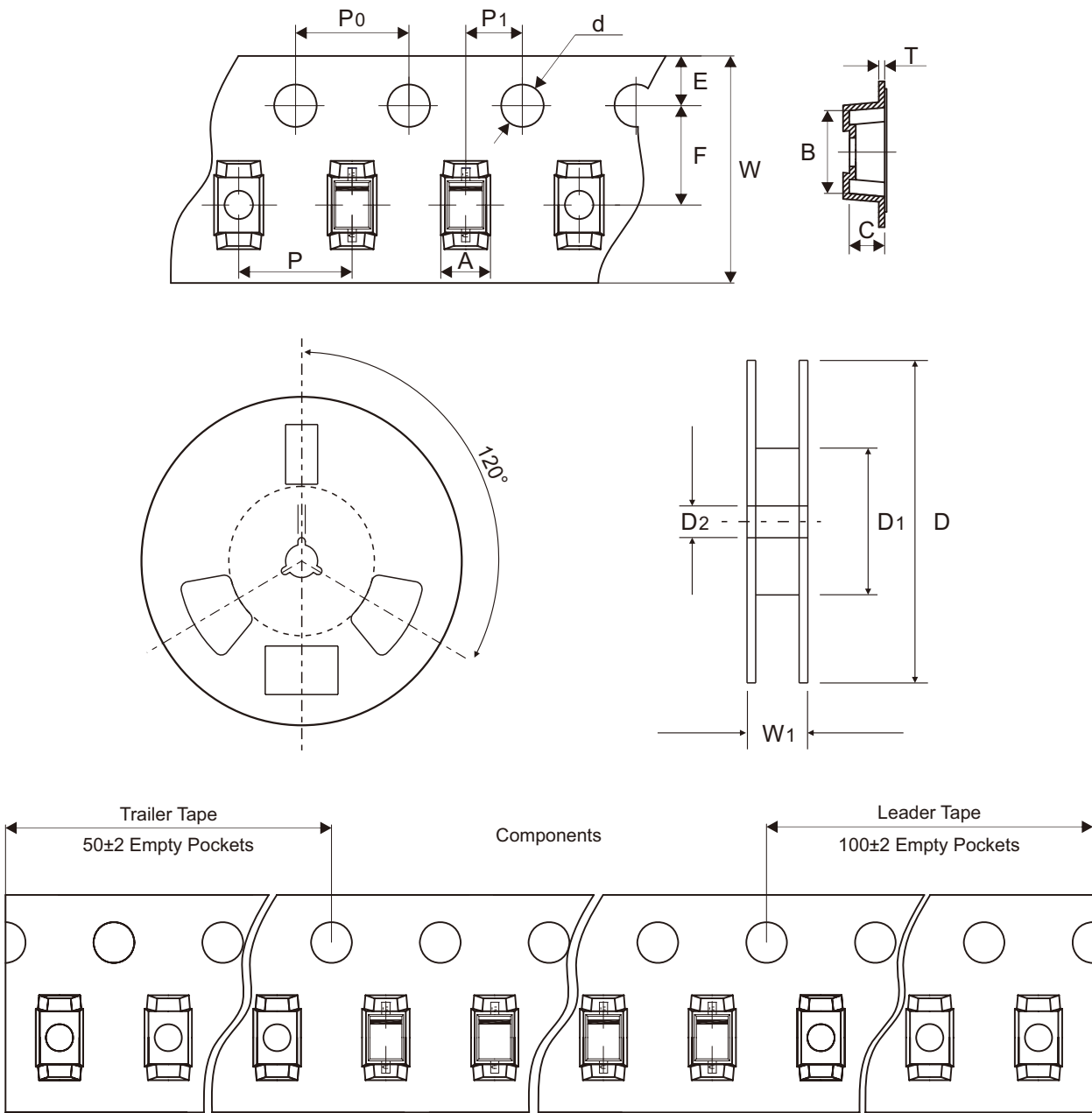


Fig.4 - Reverse Characteristics



Reel Taping Specification

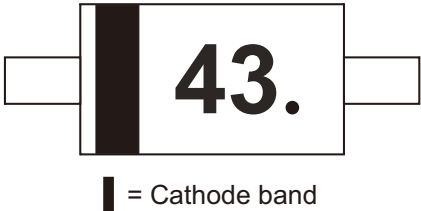


SOD-323	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.50 ± 0.05	2.90 ± 0.10	1.25 ± 0.10	1.50 + 0.10 - 0.00	178.00 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.059 ± 0.002	0.114 ± 0.004	0.049 ± 0.004	0.059 + 0.004 - 0.000	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

SOD-323	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.254 ± 0.02	8.00 + 0.30 - 0.10	12.30 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.010 ± 0.001	0.315 + 0.012 - 0.004	0.484 ± 0.039

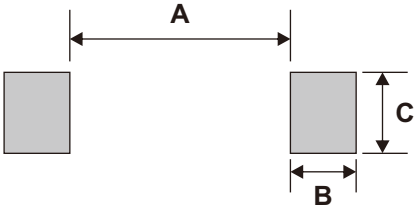
Marking Code

Part Number	Marking Code
ABAS40WS-HF	43.



Suggested P.C.B. PAD Layout

SIZE	SOD-323	
	(mm)	(inch)
A	1.88	0.074
B	0.56	0.022
C	0.69	0.027



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOD-323	3,000	7