

Absorb Diode Rectifier

ABD-20AF
SMAF



Cathode  Anode

Features

- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

Applications

- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

Maximum ratings and electrical characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit		
Maximum repetitive peak reverse voltage	VRRM	800	V		
Maximum average forward rectified current	IF(AV)	2	A		
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	50	A		
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150	°C		
Typical thermal resistance	R _{θJA}	75	°C/W		
Instantaneous forward voltage	IF=1A	T _J =25°C	TYP.	MAX.	V
			0.95	1.00	
			0.88	-	
Instantaneous reverse current at rated reverse voltage	IR	T _J =25°C	5	uA	
		T _J =125°C	10	mA	

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

FIG1: Io-TL Curve

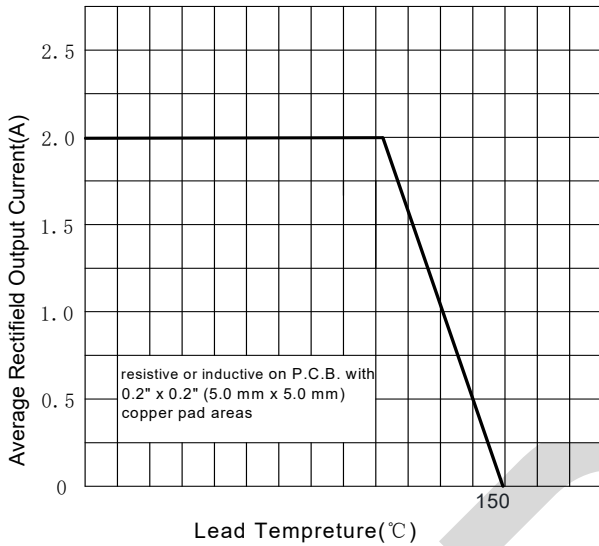


FIG2: Surge Forward Current Capability

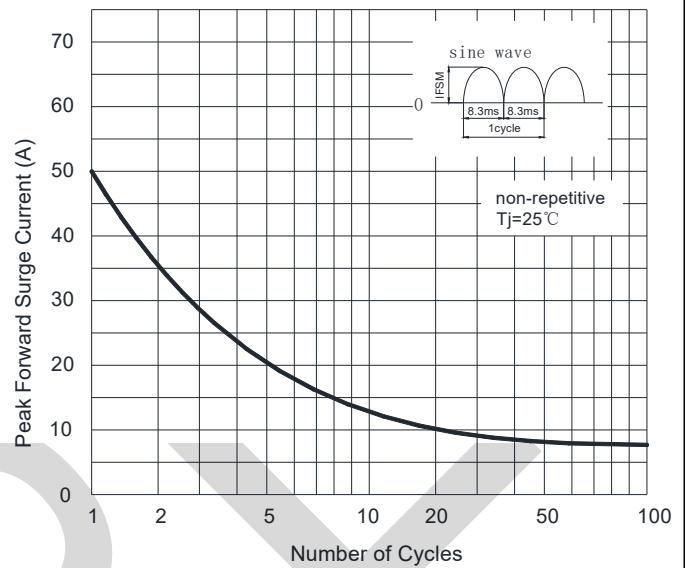


FIG3: Forward Voltage

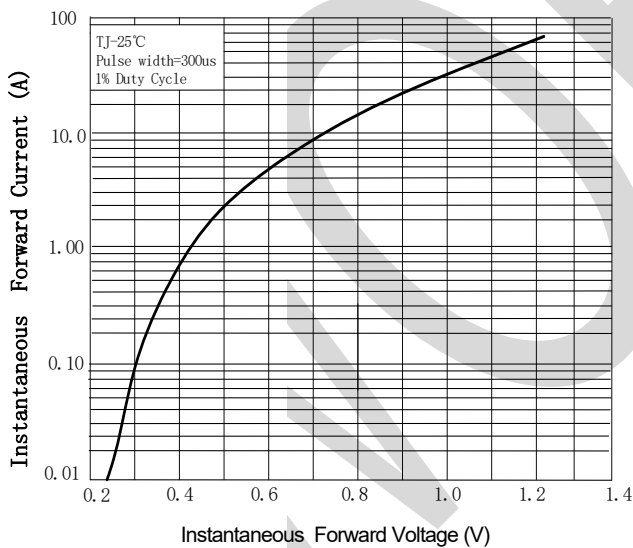
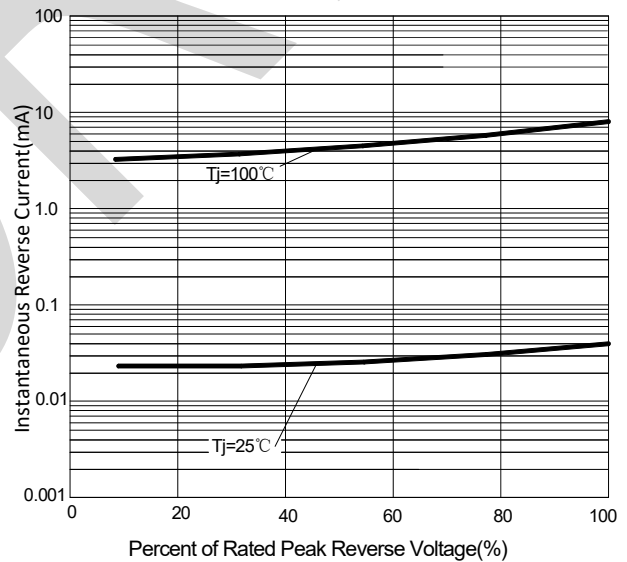
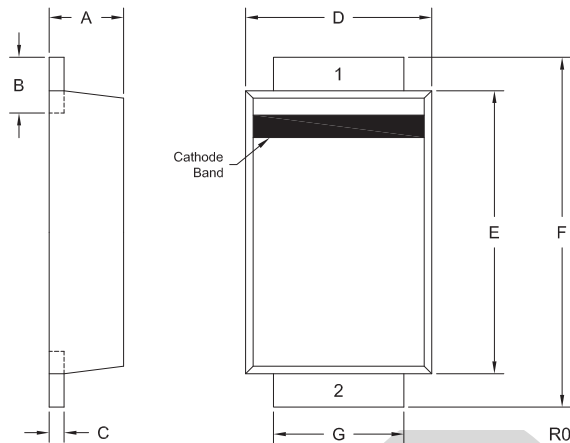


FIG4: Typical Reverse Characteristics



PACKAGE OUTLINE DIMENSIONS

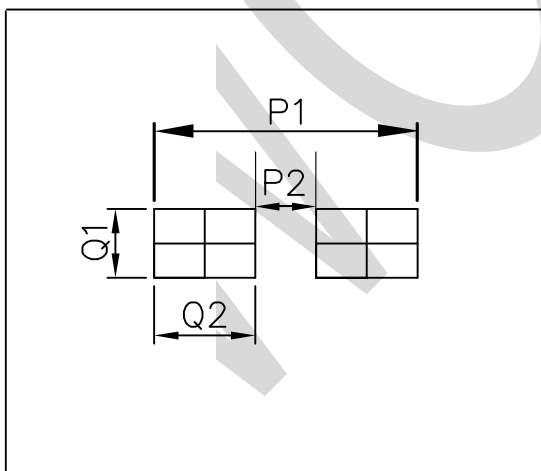
SMAF



SMAF mechanical data

UNIT		A	B	C	D	E	F	G
mm	max	1.10	0.95	0.25	2.8	3.9	4.9	1.65
	min	0.85	0.50	0.11	2.2	3.2	4.2	1.20
mil	max	43.30	37.40	9.84	110.24	153.54	192.91	64.96
	min	33.46	19.68	4.33	86.61	125.98	165.35	47.24

SMAF Suggested Pad Layout



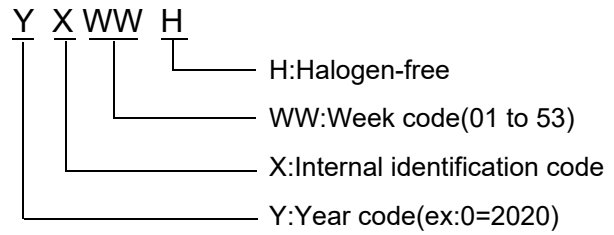
UNIT		P1	P2	Q1	Q2
mm	min	5.10	1.50	1.7	1.8
mil	min	200.8	59.05	67.0	70.87

Marking Information



①Product model : 20AF

②PDC information :



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