

SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE - 40 Volts **FORWARD CURRENT** - 2 Amperes

FEATURES

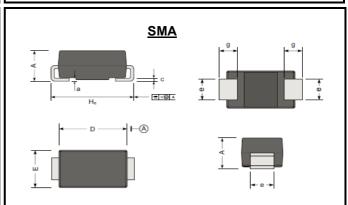
- Metal silicon junction, majority carrier conduction
- For surface mounted application
- Low power loss, high efficiency
- · High forward surge current capability
- Qualified according to MIL-STD-750

APPLICATION

- Low voltage high frequency inverters
- · Polarity protection application
- Freewheeling diodes

MECHANICAL DATA

- Case: JEDEC DO-214AC
- Case Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free".
- Moisture Sensitivity Level 1 per J-STD-020
- Polarity: Color band denotes cathode
- · Lead free finish, RoHS compliant
- Weight: 60mg (Approximate)
- Marking code: B24AT





PIN	DESCRIPTION		
1	Cathode		
2	Anode		

SMA					
DIM	MIN	MAX			
Α	1.90	2.20			
D	4.00	4.50			
Е	2.30	2.70			
HE	4.70	5.20			
С	0.15	0.31			
е	1.30	1.60			
g	0.90	1.50			
a 0.30					
All dimension in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	40	V
Maximum DC blocking voltage	V _{DC}	40	V
Maximum Average rectified output current	I _(AV)	2	Α
Peak forward surge current 8.3ms single half sine-wave Superimposed on rated load.	IFSM	50	Α
Operating junction Temperature range	T _J ,	-55 ~ +150	°C
Storage Temperature Range	T _{STG}	-55 ~ + 150	

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	MAX	UNIT
Forward voltage	I _F =2A	TJ=25°C	V _F	0.55	V
Reverse Leakage current	V _R =40V	T _J =25°C T _J =100°C	I _R	0.5 5	mA
Typical junction capacitance (Note 1)			CJ	220	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP		UNIT
Typical thermal resistance (Note 2)	RthJ _A	80		°C/W
Note:			REV1 ,Jul-2019, K	SHA46

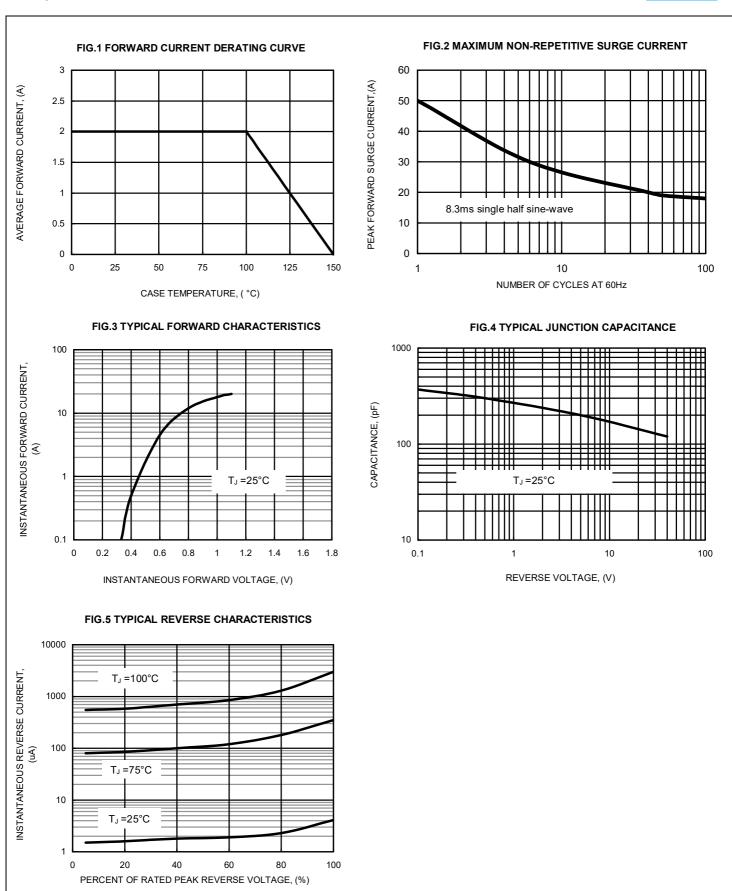
(1) Measured at 1.0MHz and applied voltage of 4.0V DC.

(2) P.C.B mounted with 2.0" x 2.0" (5 x 5 cm) copper pad areas.

Downloaded from Arrow.com.

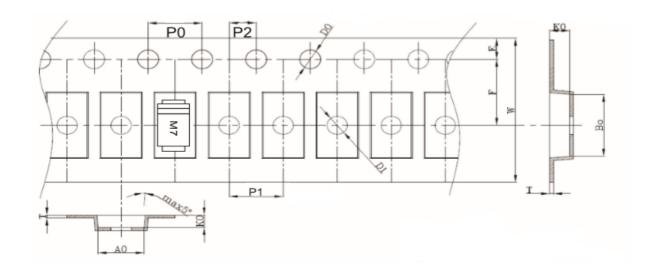
RATING AND CHARACTERISTIC CURVES B240AT



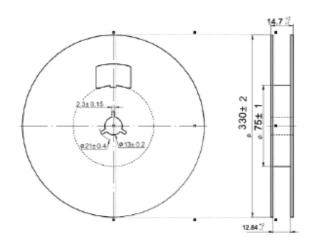




Embossed Carrier Dimensions Information:



TAPE SIZE	A0	B0	K0	P0	P1	P2	UNIT
	2.70±0.10	5.33±0.10	2.35±0.10	4.00±0.10	4.00±0.10	2.00±0.10	
12mm	Т	E	F	D0	D1	W	mm
	0.20±0.03	1.75±0.10	5.5±0.05	1.55±0.05	1.55±0.05	12.0±0.3	



PACKAGING INFORMATION B240AT



Packaging Information :

DEVICE	Q'TY / REEL	REEL DIA	BOX SIZE	Q'TY/BOX	CARTON SIZE	Q'TY/CARTON
	(PCS)	(mm)	(mm)	(PCS)	(mm)	(PCS)
B240AT	5K	330	340X340X40	10K	355X355X235	50K



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