

設計驗證
工程課
2026 -03- 03
發行
益鼎科技開發股份有限公司

承　　認　　書

APPROVAL　SHEET

客戶名稱： 鈺緯科技開發股份有限公司

客戶料號： 3DBAT54009Y (D0182)

零件敘述： DIODE ARR SCHOTT 30V 200MA SOT23

零件料號： BAT54C-TP

零件廠牌： MCC

承認日期： 2026.02.23

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客戶認可章	晨昕公司發行章
	晨昕 發行章

SRT 晨昕科技股份有限公司
SUNRISETEK CO., LTD.

TEL:02-2226-7955　FAX:02-2221-3858

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Forward Voltage
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P"Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance:500°C/W Junction to Ambient(Note 2）

200mW 30V Schottky Barrier Diode

MCC Part Number	Repetitive Peak Reverse Voltage V_{RRM}	RMS Reverse Voltage $V_{R(RMS)}$	DC Blocking Voltage V_R
BAT54HE3	30V	21V	30V
BAT54AHE3	30V	21V	30V
BAT54CHE3	30V	21V	30V
BAT54SHE3	30V	21V	30V

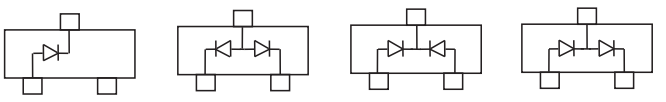
Electrical Characteristics @ 25°C Unless Otherwise Specifie

Average Forward Current	$I_{F(AV)}$	200mA	(Note 2)
Peak Forward Surge Current	I_{FSM}	600mA	t＜1s
Power Dissipation	P_d	200mW	

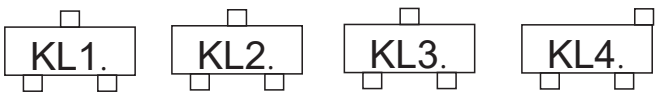
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. Part mounted on FR-4 board with recommended pad layout.

Internal Structure and Marking Code

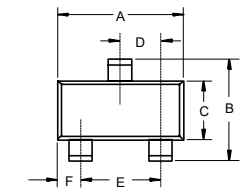


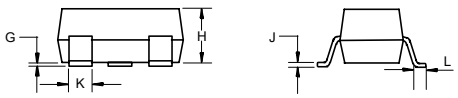
BAT54HE3 BAT54AHE3 BAT54CHE3 BAT54SHE3



BAT54HE3 BAT54AHE3 BAT54CHE3 BAT54SHE3

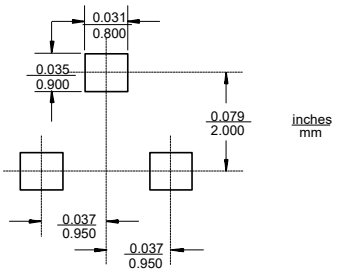
SOT-23





DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.110	0.120	2.80	3.04	
B	0.083	0.104	2.10	2.64	
C	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
H	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I_R=100μA	30			V
Forward Voltage	V_F	I_F=0.1mA			0.24	V
		I_F=1mA			0.32	V
		I_F=10mA			0.40	V
		I_F=30mA			0.50	V
		I_F=100mA			0.80	V
Reverse Current	I_R	V_R=25V			2	uA
Junction Capacitance	C_J	V_R = 1V, f = 1MHz			10	pF
Reverse Recovery Time	t_{rr}	I_F=I_R=10mA, I_{rr}=1mA,R_L=100Ω			5.0	ns

Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

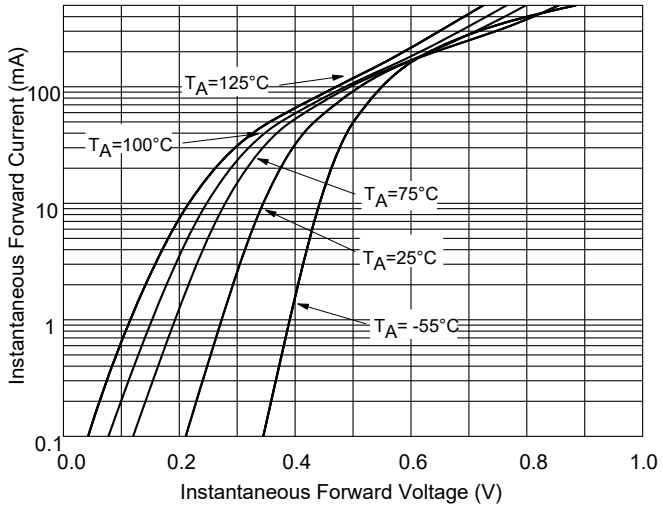


Fig. 2 - Typical Reverse Leakage Characteristics

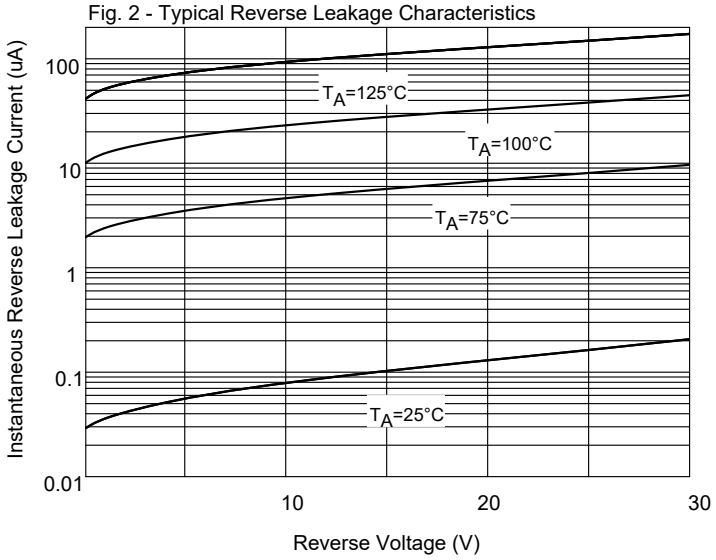


Fig. 3 - Capacitance Characteristics

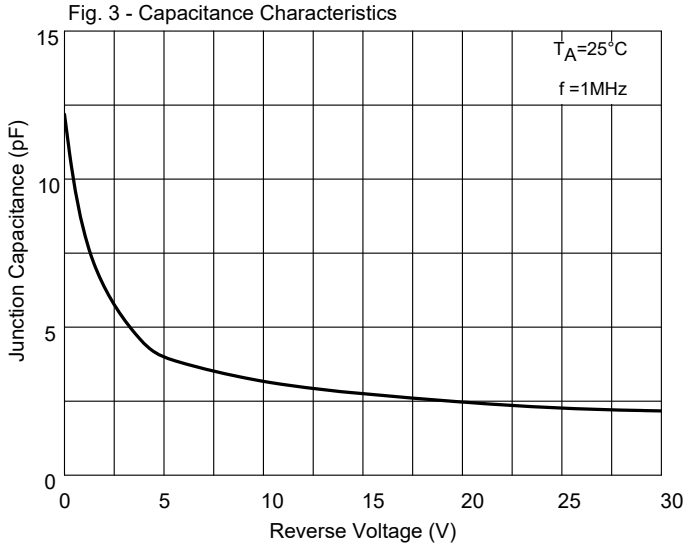
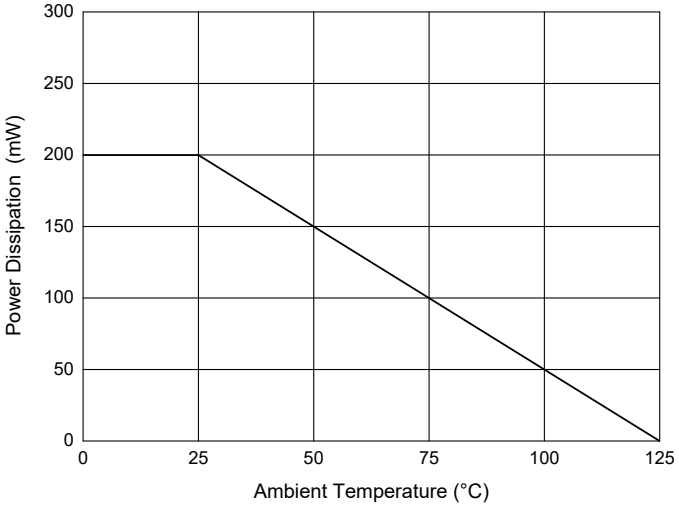


Fig. 4- Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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