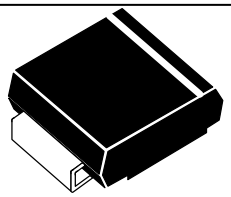
WSR4005C-AT

SCHOTTKY BARRIER RECTIFIER



SMC
(JEDEC DO-214AB)

Features

- 5A Schottky barrier diode
- Schottky barrier rectifier
- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- AEC-Q101 qualified

Mechanical Data

- Case: SMC(JEDEC DO-214AB),molded plastic body
- Mounting position: any
- Polarity: Color band denotes cathode end

Absolute Maximum Ratings and Electronics characteristics

Ratings@25℃ ambient temperature unless otherwise specified

Parameter	Symbol	WSR4005C-AT	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	28	V
Maximum DC blocking voltage	V_{DC}	40	V
Maximum average forward rectified current	$I_{F(AV)}$	5	A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	120	A
Maximum instantaneous forward voltage at I_F	V_F	0.55	V
Maximum DC reverse current (Tj= 25℃) at rated DC blocking voltage (Tj=100℃)	I_R	0.5 20	mA
Typical thermal resistance(junction to ambient)	$R_{\theta JA}$	50	℃/W
Operating and storage temperature range	T_J, T_{STG}	-55 ~ +150	℃

Typical characteristics (Ta=25°C, unless otherwise noted)

Fig.1 Forward Current Derating Curve

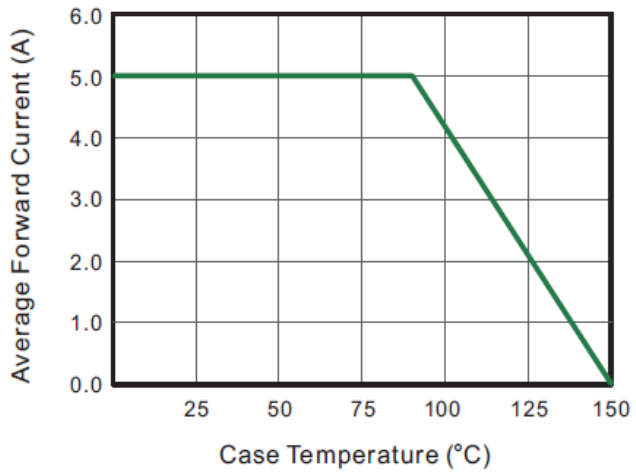


Fig.2 Typical Reverse Characteristics

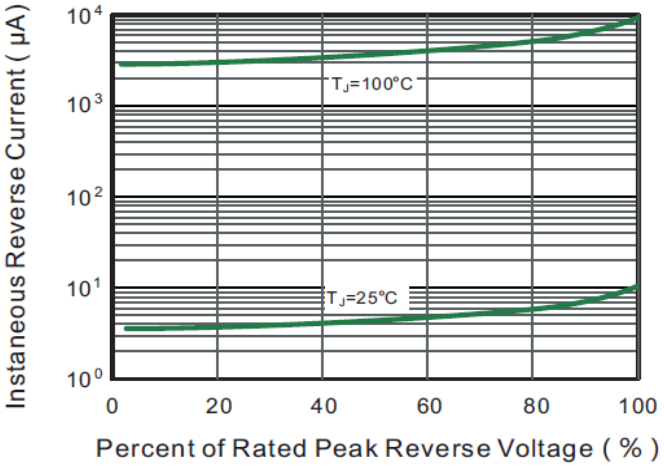
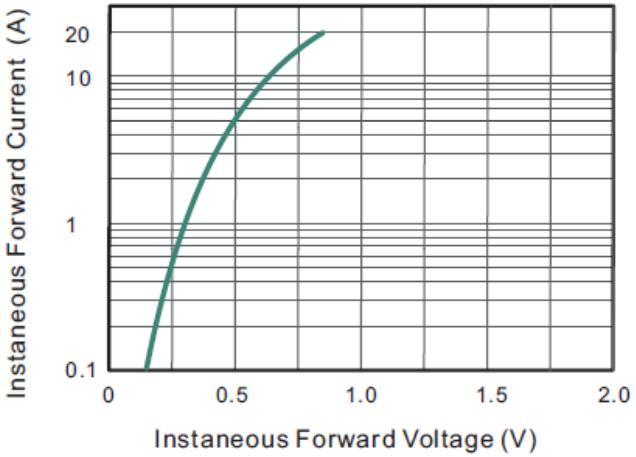
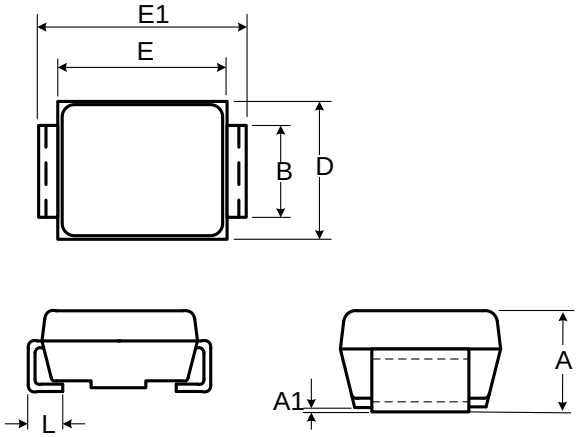


Fig.3 Typical Forward Characteristic



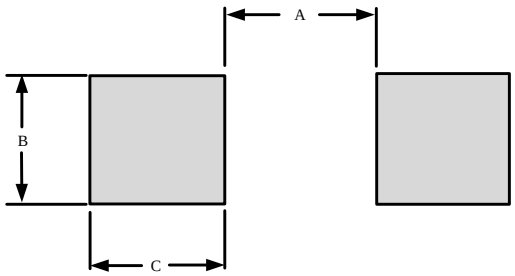
Outline Drawing

Ref.（mm）	Millimeters	
	Min.	Max.
A	1.99	2.70
A1	-	0.30
B	2.75	3.27
E	6.50	7.40
E1	7.60	8.13
D	5.59	6.22
L	0.76	1.60



Recommended Solder Pad Layout

DIM(mm)	MILLIMETERS
A	4.2
B	3.3
C	2.4



Marking Code

Part Number	WSR4005C-AT
Marking Code	SS54

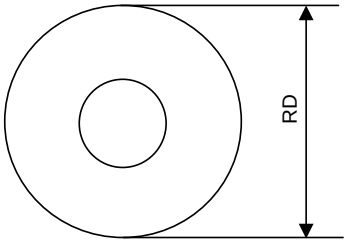
Package Information

Tape & Reel: 3000 pcs.

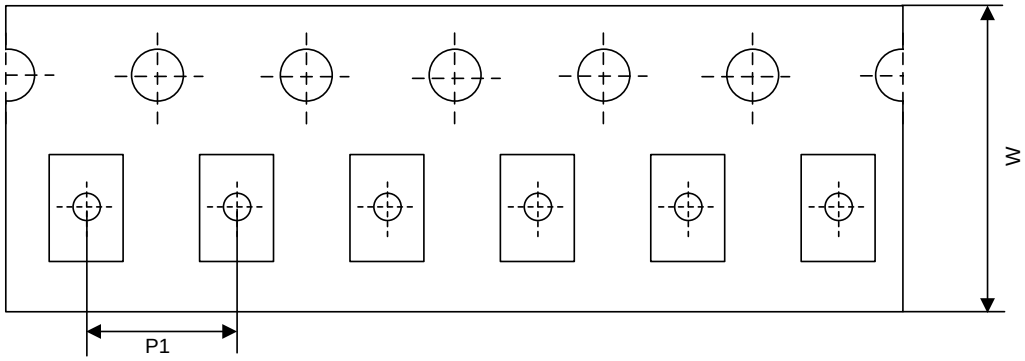
Tape and Reel Information

RD	Reel Dimensions	13 inch
W	Overall width of the carrier tape	16 mm
P1	Pitch between successive cavity centers	8 mm

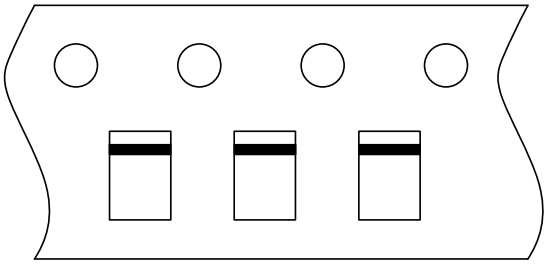
Reel Dimensions Schematic diagram



Tape Dimensions Schematic diagram



Quadrant Assignments for PIN1 Orientation in tape





User Direction of Feed

Top View

Contact Information

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Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.