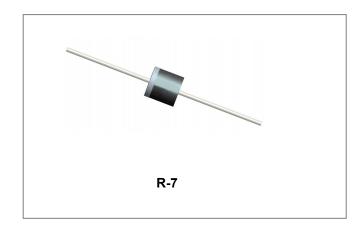






ST2545AX-D/ST2545AX-C SCHOTTKY BARRIER RECTIFIER



Features

- Ultralow forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- Trench MOS Schottky technology
- Terminals finish: 100% Pure Tin
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Mounting Position: Any

Maximum Ratings(limiting values, at 25 °C unless otherwise specified)

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage	V_{RRM}	-		
Working Peak Reverse Voltage	V_{RWM}		45	V
DC Blocking Voltage	V_R			
Average Rectified Forward Current	I _{F (AV)}	Tc=125°C, In DC	25	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse, T _C = 25°C	350	Α

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 25A, Pulse, T _J = 25 °C	0.51	0.55	V
Reverse Current*	I _{R1}	@V _R = rated V _R T _J = 25 °C	0.01	0.2	mA
	I _{R2}	@V _R = rated V _R T _J = 125 °C	14	60	mA
Junction Capacitance	Ст	$@V_R = 5V, T_C = 25 °C$ $f_{SIG} = 1MHz$	2995	-	pF

^{*} Pulse width < 300 µs, duty cycle < 2%

- China Germany Korea Singapore United States •
- http://www.smc-diodes.com sales@ smc-diodes.com •



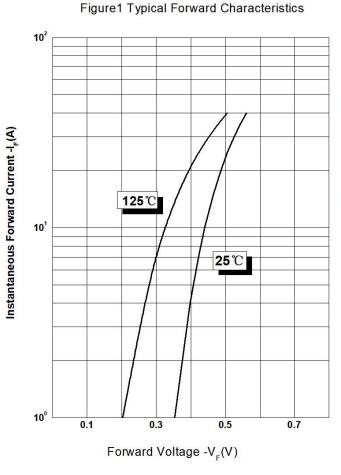


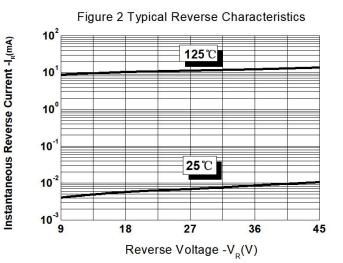


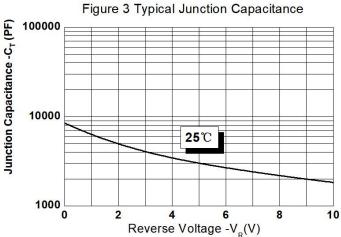
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	In DC Forward Mode, without reverse bias, t ≤1 hour	-55 to +200	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance	R _{θJC}	-	1.8	°C/W
Approximate Weight	wt	ST2545AX-D ST2545AX-C	2.6 3	g

Ratings and Characteristics Curves







[•] China - Germany - Korea - Singapore - United States •

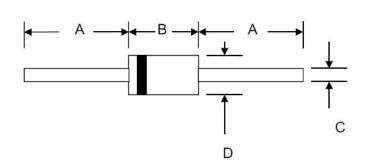
[•] http://www.smc-diodes.com - sales@ smc-diodes.com •





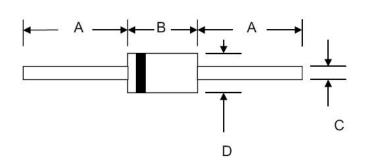


Mechanical Dimensions R-7(ST2545AX-D)



SYMBOL	Millim	neters	Inches		
STWBUL	Min.	Max.	Min.	Max.	
А	15.00	-	0.590	-	
В	8.60	9.10	0.340	0.360	
С	1.90	2.10	0.075	0.083	
D	8.60	9.10	0.340	0.360	

Mechanical Dimensions R-7(ST2545AX-C)



OVMDOL	Millim	neters	Inches		
SYMBOL	Min.	Max.	Min.	Max.	
А	24.5	-	0.965	-	
В	8.60	9.10	0.340	0.360	
С	1.90	2.10	0.075	0.083	
D	8.60	9.10	0.340	0.360	





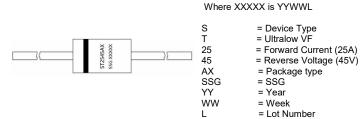


Ordering Information

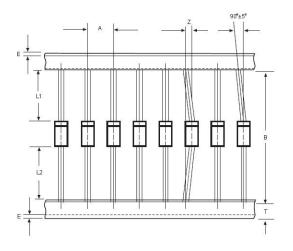
Device	Package	Shipping
ST2545AX-D	R-7(Pb-Free)	800pcs / reel
ST2545AX-C	R-7(Pb-Free)	800pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Carrier Tape Specification R-7



SYMBOL	Millimeters			
STIVIBUL	Min.	Max.		
Α	9.50	10.50		
В	50.9	53.9		
Z	-	1.20		
Т	5.60	6.40		
E	1	0.80		
IL1-L2I	-	1.0		







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