

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

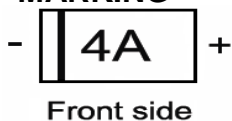
FEATURES

- Low Forward Voltage Drop
- Very Small SMD Package

APPLICATION

- Low Voltage Rectification
- High Efficiency DC/DC Conversion
- Switch Mode Power Supply
- Inverse Polarity Protection
- Low Power Consumption Applications

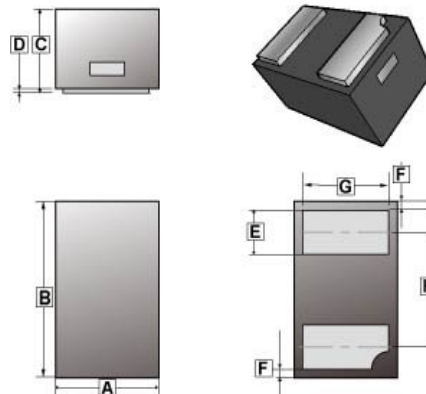
MARKING



PACKAGE INFORMATION

Package	MPQ	Leader Size
DFNWB	10K	7 inch

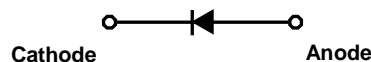
DFNWB



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.55	0.68	E	0.15	0.35
B	0.95	1.08	F	0.05	REF.
C	0.40	0.50	G	0.40	0.60
D	-	0.05	H	0.65	TYP.

ORDER INFORMATION

Part Number	Type
SCS140DS-C	Lead (Pb)-free and Halogen-free



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}	40	
RMS Reverse Voltage	$V_{R(RMS)}$	28	
Average Rectified Output Current	I_o	1	A
Non-repetitive Peak Forward Surge Current @8.3ms Single Half Sine-Wave	I_{FSM}	7	A
Power Dissipation	P_D	500	mW
Thermal Resistance from Junction-Ambient	$R_{\theta JA}$	250	°C/W
Operating Junction & Storage Temperature Range	T_J, T_{STG}	150, -50~150	°C

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ C$ unless otherwise specified)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V_F	-	0.35	0.38	V	$I_F=0.1A$
		-	0.37	0.4		$I_F=0.2A$
		-	0.42	0.49		$I_F=0.5A$
		-	0.47	0.55		$I_F=0.7A$
		-	0.51	0.61		$I_F=1A$
Reverse Current	I_R	-	10	40	μA	$V_R=40V$
Total Capacitance	C_{tot}	-	19	-	pF	$V_R=10V, f=1MHz$

RATINGS AND CHARACTERISTIC CURVES

