

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

FEATURES

- Low Forward Voltage Drop
- Small Power Mold Type
- Low I_R
- Small Current Rectification

MARKING



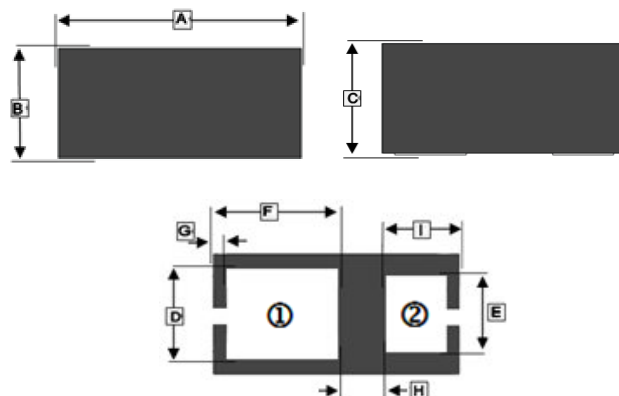
PACKAGE INFORMATION

Package	MPQ	Leader Size
WBFBP1608-2L	10K	7 inch

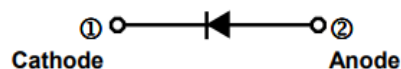
ORDER INFORMATION

Part Number	Type
SCS140DG-C	Lead (Pb)-free and Halogen-free

WBFBP1608-2L



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.55	1.65	F	0.85 REF.	
B	0.75	0.85	G	0.08 REF.	
C	0.45	0.55	H	0.34 REF.	
D	0.60	0.76	I	0.41 REF.	
E	0.52	0.68			



ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameters	Symbol	Ratings	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}	40	
RMS Reverse Voltage	V_{RMS}	28	
Average Rectified Output Current	I_o	1	A
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	5	A
Power Dissipation	P_D	150	mW
Thermal Resistance from Junction-Ambient	$R_{\theta JA}$	167	$^\circ\text{C/W}$
Operating Junction and Storage Temperature	T_J, T_{STG}	125, -55~150	$^\circ\text{C}$

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

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V_F	-	-	0.55	V	$I_F=0.7\text{A}$
Reverse Current	I_R	-	-	50	μA	$V_R=40\text{V}$
Diode Capacitance	$T_J=25^\circ\text{C}$ C_d	-	50	-	pF	$V_R=1\text{V}, f=1\text{MHz}$
		-	20	-		$V_R=10\text{V}, f=1\text{MHz}$
Reverse Recovery Time	T_{rr}	-	15	-	nS	$I_F=I_R=10\text{mA}, R_L=100\Omega,$ $I_{R(\text{meas})}=1\text{mA}$

CHARACTERISTIC CURVES

