

FEATURES

Low Forward Voltage Drop

Extremely Small DFN1610-2L Package

| Surface Device Type Mounting

Green EMC

| Band Indicates Cathode



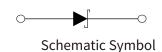


APPLICATION

Low voltage rectification

Reverse polarity protection

Low power consumption applications



APPROVALS

RoHS Compliance with 2011/65/EU

HF Compliance with IEC61249-2-21:2003

MAXIMUM RATINGS ($T_A = 25$ °C)

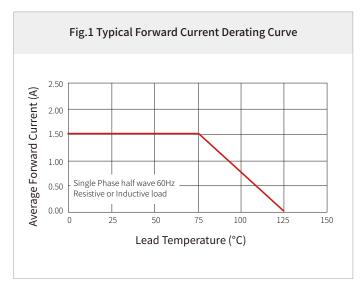
Parameter	Symbol	Value	Unit
Maximum repetitive reverse voltage	$V_{_{ m RRM}}$	40	V
Maximum DC blocking reverse voltage	V_R	40	V
Average Forward Current	I _{F(AV)}	1.5	А
Peak Forward Surge Current (At 8.3ms single half sine-wave)	I _{FSM}	8.5	А
Junction Temperature Range	T _J	-50 to +125	°C
Storage Temperature Range	T_{stg}	-50 to +150	°C

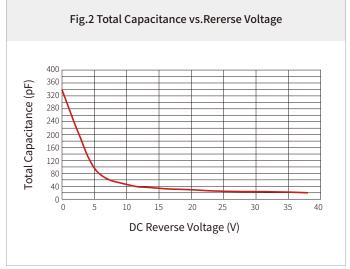


ELECTRICAL CHARACTERISTICS(T_A=25°C)

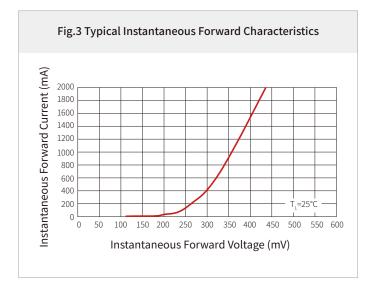
Parameter		Symbol	Min.	Тур.	Max.	Unit
Breakdown Voltage	I _R =100μA	$V_{\mathtt{BR}}$	40			V
Reverse Leakage Current	V _R =40V	I _R			100	μΑ
	I _F =0.5A	V _F			0.45	
Forward Voltage	I _F =1A				0.49	V
	I _F =1.5A				0.65	
Junction Capacitance	$V_R = 5V, f = 1MHz$	C ¹		85		pF

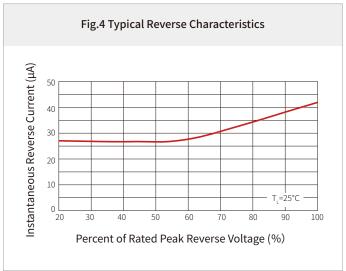
CHARACTERISTIC CURVES

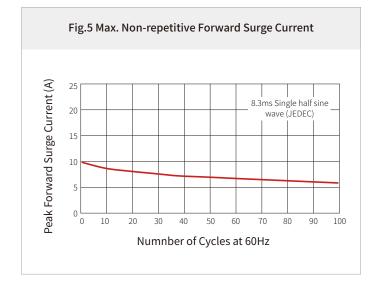








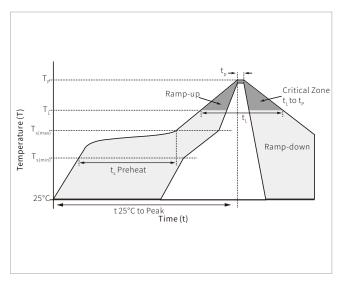




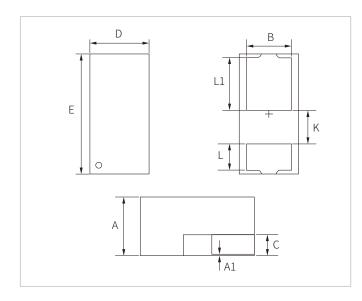


SOLDERING PARAMETERS

	Lead-free assembly		
	Temperature Max (T _{s(min)})	150°C	
Pre Heat	Temperature Max (T _{s(max)})	200°C	
	Time (min to max) (t _s)	60 – 180 secs	
Average ran	3°C/second max		
	$T_{S(max)}$ to T_L - Ramp-up Rate		
Reflow	Temperature (T _L) (Liquidus)	217°C	
Reliow	Time (min to max) (t_L)	60 – 150 seconds	
Peak Temp	260°C		
Time within	20 – 40 seconds		
Ramp-dow	6°C/second max		
Time 25°C t	8 minutes max.		
Do not exce	260°C		



DFN1608 PACKAGE INFORMATION



Ref.	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
А	0.40	0.60	0.016	0.024	
A1	0	0.05	0	0.002	
В	0.55	0.65	0.022	0.026	
С	0.152		0.006		
D	0.70	0.90	0.028	0.035	
E	1.50	1.70	0.060	0.067	
K	0.40	0.50	0.016	0.020	
L1	0.65	0.75	0.026	0.030	
L	0.30	0.40	0.012	0.016	

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SRB1040FC	DFN1608	3000PCS	7"



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