

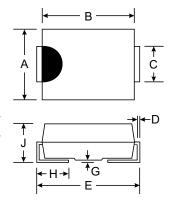
深圳市蓝光明科技有限公司

ES2G

2.0A SURFACE MOUNT SUPER-FAST RECTIFIER

Features

- Glass Passivated Die Construction
- Super-Fast Recovery Time For High Efficiency
- Low Forward Voltage Drop and High Current Capability
- Surge Overload Rating to 50A Peak
- Ideally Suited for Automated Assembly
- Plastic Material: UL Flammability Classification Rating 94V-0



SMB				
Dim	Min	Max		
Α	3.30	3.94		
В	4.06	4.57		
С	1.96	2.21		
D	0.15	0.31		
E	5.00	5.59		
G	0.10	0.20		
Н	0.76	1.52		
J	2.00	2.62		
All Dimensions in mm				

Mechanical Data

Case: Molded Plastic

 Terminals: Solder Plated Terminal -Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band or Cathode Notch

• Weight: 0.093 grams (approx.)

Marking: Type Number

Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	ES2G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	400	V
RMS Reverse Voltage		V _{R(RMS)}	280	V
Average Rectified Output Current	@ T _T = 110°C	lo	2.0	Α
Non-Repetitive Peak Forward Surge Curre 8.3ms Single half sine-wave Superimpose (JEDEC Method)	ent d on Rated Load	I _{FSM}	50	А
Forward Voltage	@ I _F = 2.0A	V _{FM}	1.25	V
Peak Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C @ T _A = 125°C	I _{RM}	5.0 350	μА
Reverse Recovery Time (Note 3)		t _{rr}	25	ns
Typical Junction Capacitance (Note 2)		Cj	25	pF
Typical Thermal Resistance, Junction to T	erminal (Note 1)	$R_{\theta JT}$	20	°C/W
Operating and Storage Temperature Range		T _{j,} T _{STG}	-55 to +150	°C

Notes

- 1. Unit mounted on PC board with 5.0 mm 2 (0.013 mm thick) copper pads as heat sink.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A. See Figure 5.

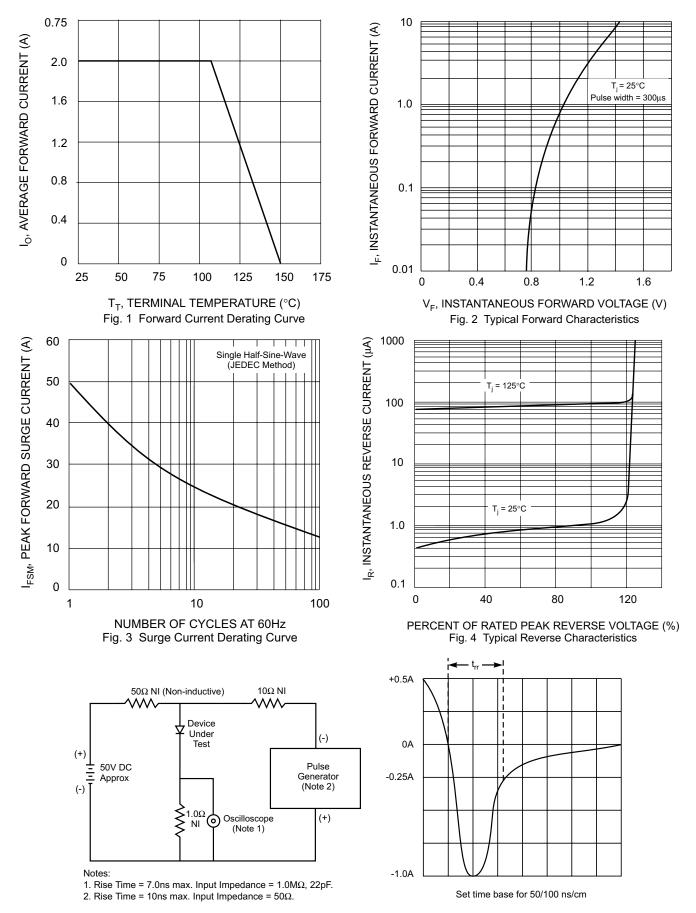


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit