查询ES2GA-13-F供应商

捷多邦,专业PCB打样工厂,24小时加急出货



Features

ES2A/A - ES2D/A

2.0A SURFACE MOUNT SUPER-FAST RECTIFIER

Glass Passivated Die Construction Super-Fast Recovery Time For High Efficiency Surge Overload Rating to 50A Peak		E	F	5 j	0.00	1
Ideally Suited for Automated Assembly	←── B ───>		SMA		SMB	
Lead Free Finish/RoHS Complaint (Note 4)		Dim	Min	Max	Min	Max
		A	2.29	2.92	3.30	3.94
echanical Data	A C	В	4.00	4.60	4.06	4.57
		С	1.27	1.63	1.96	2.21
Case: SMA/SMB	_↓_ []	D	0.15	0.31	0.15	0.31
Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0	→ < _D	E	4.80	5.59	5.00	5.59
Moisture Sensitivity: Level 1 per J-STD-020C		G	0.10	0.20	0.10	0.20
Terminals: Lead Free Plating (Matte Tin		Н	0.76	1.52	0.76	1.52
Finish). Solderable per MIL-STD-202, Method 208		J	2.01	2.30	2.00	2.40
Polarity: Cathode Band or Cathode Notch	← E →	-	All Dimensions in mm		1	
Marking Information: See Page 3 Ordering Information: See Page 3 SMA Weight: 0.064 grams (approximate) SMB Weight: 0.093 grams (approximate)	AA, BA, CA, DA Suffix Designates SMA Package A, B, C, D, Suffix Designates SMB Package					

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

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

Characteristic	Symbol	ES2A/A	ES2B/A	ES2C/A	ES2D/A	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage (Note 5)	V _{RRM} V _{RWM} V _R	50	100	150	200	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	105	140	V
Average Rectified Output Current @ T _T = 110 C	Io	2.0			Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load	I _{FSM}	50			Α	
Forward Voltage @ I _F = 2.0A	V _{FM}	0.92			V	
Peak Reverse Current@ $T_A = 25 C$ at Rated DC Blocking Voltage (Note 5)@ $T_A = 125 C$	I _{RM}	5.0 350			A	
Reverse Recovery Time (Note 3)	t _{rr}	25			ns	
Typical Total Capacitance (Note 2)	Ст	25			pF	
Typical Thermal Resistance, Junction to Terminal (Note 1)	R JT	20		°C/W		
Operating and Storage Temperature Range	T _j , T _{STG}	-55 to +150		С		

Notes:

1. Unit mounted on PC board with 5.0 mm² (0.013 mm thick) copper pads as heat sink.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A. See Figure 5.
RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, see *EU Directive Annex Notes 5 and 7.*

5. Short duration pulse test used to minimize self-heating effect.



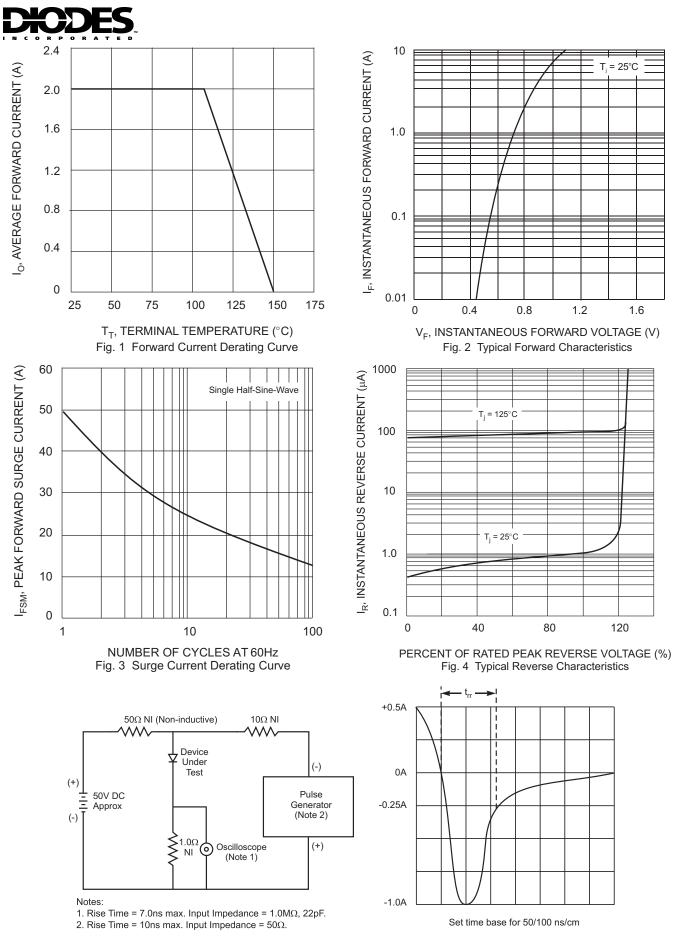


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

DECES.

Ordering Information (Note 6)

Device	Packaging	Shipping
ES2xA-13-F	SMA	5000/Tape & Reel
ES2x-13-F	SMB	3000/Tape & Reel

* x = Device type, e.g. ES2BA-13-F (SMA package); ES2A-13-F (SMB package).

Notes: 6. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



ES2XA = Product type marking code, ex: ES2BA (SMA package) ES2X = Product type marking code, ex: ES2A (SMB package)) | = Manufacturers' code marking YWW = Date code marking Y = Last digit of year ex: 2 for 2002 WW = Week code 01 to 52

IMPORTANT NOTICE

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Diodes Incorporated does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

Diodes Incorporated products are not authorized for use as critical components in life support devices or systems without the expressed written approval of the President of Diodes Incorporated.