查询ES1AE供应商



Micro Commercial Components

Features

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

1 Amp Super Fast Recovery Silicon Rectifier

50 to 1000 Volts

ES1AE

THRU

ES1ME

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Superfast Recovery Times For High Efficiency

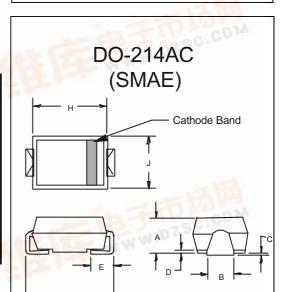
Maximum Ratings

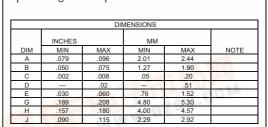
- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

MCC		Maximum	aximum Maximum				
Part	Device	Recurrent	RMS	DC			
Number	Marking	Peak Reverse Voltage		Blocking			
		Voltage	C.C.	Voltage			
ES1AE	ES1A	50V	35V	50V			
ES1BE	ES1B	100V	70V	100V			
ES1CE	ES1C	150V	105V	150V			
ES1DE	ES1D	200V	140V	200V			
ES1GE	ES1G	400V	280V	400V			
ES1JE	ES1J	600V	420V	600V			
ES1KE	ES1K	800V	560V	800V			
ES1ME	ES1M	1000V	700V	1000V			

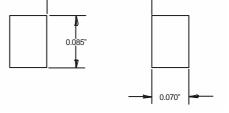
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _J = 75°C		
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine		
Maximum Instantaneous Forward Voltage	-				
ES1AE-DE ES1GE-JE ES1KE~ME	V _F	.975V 1.35V 1.70V	I _{FM} = 1.0A; T _J = 25°C*		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 100μΑ	T _J = 25°C T _J = 100°C		
Maximum Reverse Recovery Time ES1AE-DE ES1GE-KE ES1ME	Trr	50ns 75ns 100ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A		
Typical Junction Capacitance	CJ	45pF	Measured at 1.0MHz, V _R =4.0V		





SUGGESTED SOLDER PAD LAYOUT



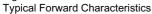
Pulse test: Pulse width 200 μ sec, Duty cycle 2%

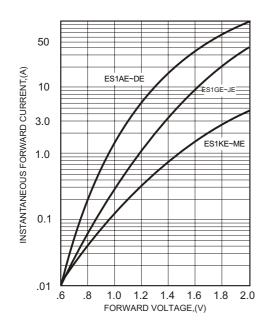
dzsc.com



ES1AE thru ES1ME

Figure 1

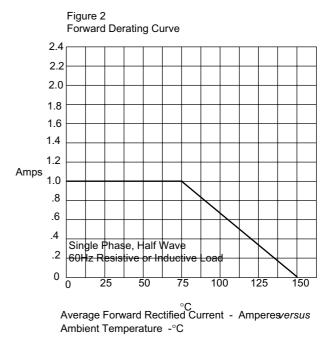


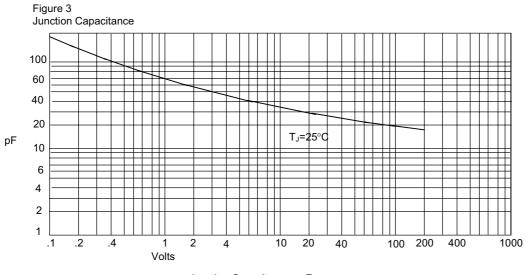


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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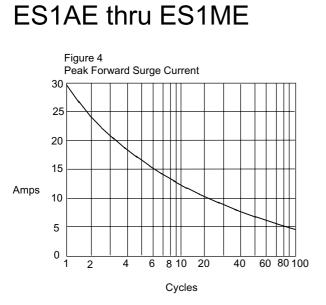




Junction Capacitance - pF*versus* Reverse Voltage - Volts



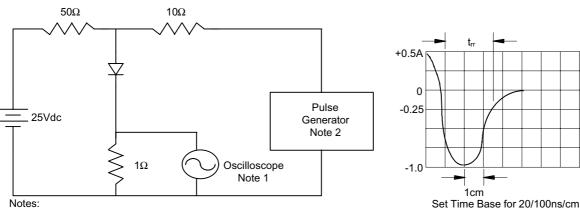




Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 6

Reverse Recovery Time Characteristic And Test Circuit Diagram



1. Rise Time = 7ns max. Input impedance = 1 megohm, 22pF 2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive





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