



Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF"
 Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates
- Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Easy Pick And Place
- High Temp Soldering: 260 °C for 10 Seconds At Terminals
- Superfast Recovery Times For High Efficiency

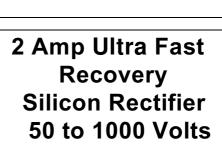
Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 20°C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse	Maximum RMS Voltage	Maximum DC Blocking		
Number		Voltage	vollage	Voltage		
ES2A	ES2A	50V	35V	50V		
ES2B	ES2B	100V	70V	100V		
ES2C	ES2C	150V	105V	150V		
ES2D	ES2D	200V	140V	200V		
ES2G	ES2G	400V	280V	400V		
ES2J	ES2J	600V	420V	600V		
ES2K	ES2K	800V	560V	800V		
ES2M	ES2M	1000V	700V	1000V		

Electrical Characteristics @ 25°C Unless Otherwise Specified

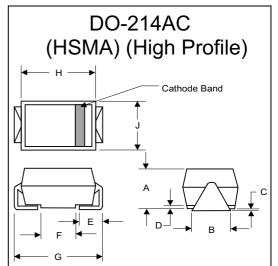
Average Forward Current	I _{F(AV)}	2.0A	T _J = 75°C
Peak Forward Surge	I _{FSM}	50A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
ES2A-D ES2G-J	VF	.975V 1.35V	I _{FM} = 2.0A;
ES2K-M		1.70V	T _J = 25°C*
Maximum DC			
Reverse Current At	I _R	5μΑ	T _J = 25°C
Rated DC Blocking		150μΑ	T _J = 100°C
Voltage		•	-
Maximum Reverse			
Recovery Time			
ES2A-D ES2G-J	T _{rr}	50ns 60ns	I _F =0.5A, I _R =1.0A,
ES2K-M		100ns	I _{rr} =0.25A
Typical Junction	CJ	25pF	Measured at
Capacitance		-	1.0MHz, V _R =4.0V
Capacitance			$1.010172, V_R = 4.0V$

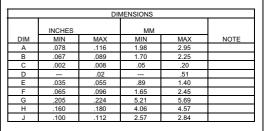


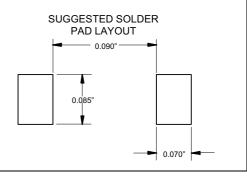
ES2A

THRU

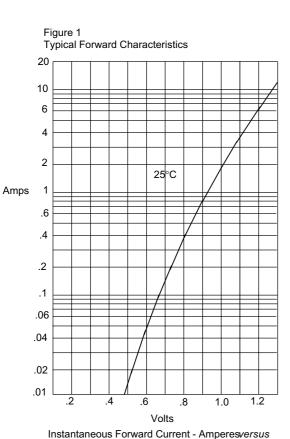
ES2M







*Pulse test: Pulse width 200 μsec, Duty cycle 2% Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

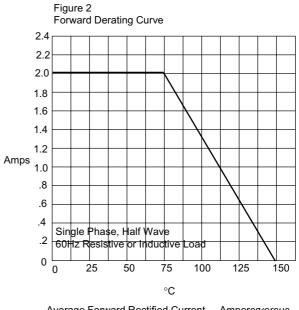


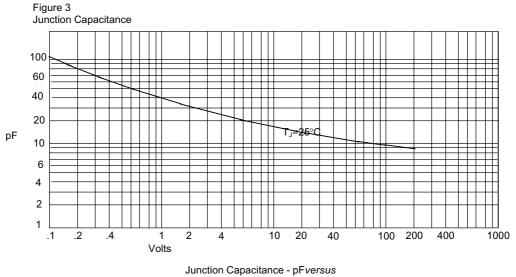
ES2A thru ES2M

Instantaneous Forward Current - Amperesversu Instantaneous Forward Voltage - Volts



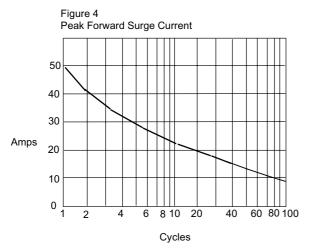
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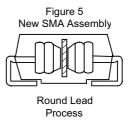


Reverse Voltage - Volts



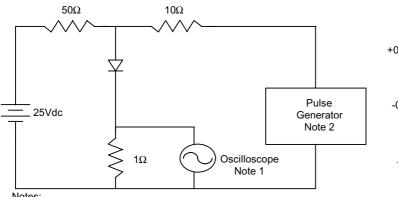


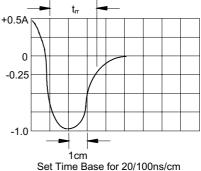




Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 6 Reverse Recovery Time Characteristic And Test Circuit Diagram





Notes:

1. Rise Time = 7ns max.

Input impedance = 1 megohm, 22pF

2. Rise Time = 10ns max. Source impedance = 50 ohms

3. Resistors are non-inductive



Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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