

Micro Commercial Components

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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1
- Easy Pick And Place
- High Temp Soldering: 260 °C for 10 Seconds At Terminals
- Superfast Recovery Times For High Efficiency

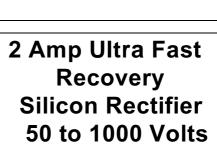
Maximum Ratings

- 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	Device Marking	Maximum Recurrent	Maximum RMS	Maximum DC			
Number	_	Peak Reverse Voltage	Voltage	Blocking Voltage			
		vollaye		vollaye			
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

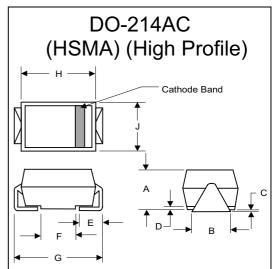
Average Forward Current	I _{F(AV)}	2.0A	T _J = 75°C
Peak Forward Surge	I _{FSM}	50A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
ES2A-D	VF	.975V	I _{FM} = 2.0A;
ES2G-J ES2K-M		1.35V 1.70V	T _{.1} = 25°C*
Maximum DC			0
Reverse Current At	I _R	5μΑ	T₁ = 25°C
Rated DC Blocking	-1	150μA	$T_{\rm J} = 100^{\circ} C$
Voltage		τούμλ	1) = 100 C
Maximum Reverse			
Recovery Time			
ES2A-D	T _{rr}	50ns	I _F =0.5A, I _R =1.0A,
ES2G-J	l rr	60ns	, ix ,
ES2K-M		100ns	I _{rr} =0.25A
Typical Junction	CJ	25pF	Measured at
Capacitance			1.0MHz, V _R =4.0V



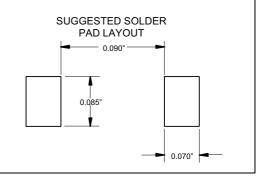
ES2A

THRU

ES2M

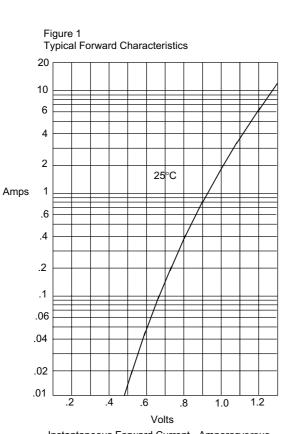


MENSIONS INCHES ММ MIN .078 MIN MAX NOTE .116 1.98 2.95 1 70 .51 05 89 140 1.65 5.21 5.69 .160 .180



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

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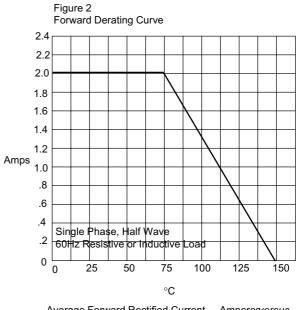


ES2A thru ES2M

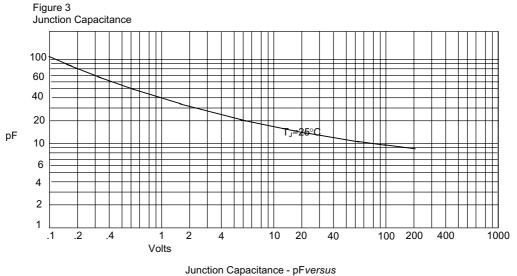
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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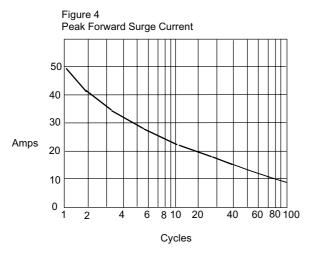
Average Forward Rectified Current - Amperes/ersus Ambient Temperature $\ \ {}^\circ C$



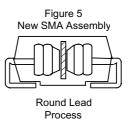
Reverse Voltage - Volts

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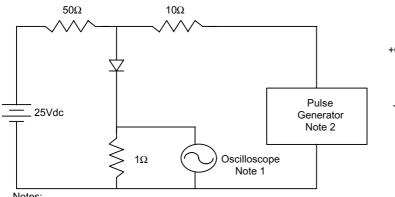


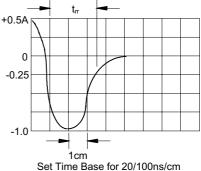




Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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

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Ordering Information

Device	Packing	
(Part Number)-TP	Tape&Reel3Kpcs/Reel	

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