NOT RECOMMENDED FOR NEW DESIGNS USE ES1A-LT~ES1J-LT SERIES



Micro Commercial Components



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Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Low Leakage and High Surge Capability
- Super Fast Switching Speed For High Efficiency

Maximum Ratings

Average Forward

Forward Voltage

Maximum DC Reverse Current At

Voltage

Rated DC Blocking

Maximum Reverse

Typical Junction Capacitance

Recovery Time16-18

DLSF11-DLSF15

DLSF16-DLSF18

DLSF11-DLSF15

DLSF16-DLSF18

Peak Forward Surge

Current

Current Maximum Instantaneous

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage	_	Voltage
DLSF11		50V	35V	50V
DLSF12		100V	70V	100V
DLSF13		150V	105V	150V
DLSF14		200V	140V	200V
DLSF15		300V	210V	300V
DLSF16		400V	280V	400V
DLSF18		600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

I_{F(AV)}

IFSM

 V_{F}

 I_R

Trr

1 A

30A

.975V

1.75V

5μΑ

50µA

35ns

50ns

15pF

10pF

T₄ = 55°C

I_{FM} = 1.0A:

T_A = 25°C

T_A = 25°C

I_{rr}=0.25A

Measured at

T_A = 150°C

I_F=0.5A, I_R=1.0A,

1.0MHz, V_R=4.0V

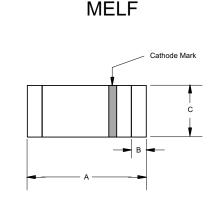
8.3ms, half sine

1 Amp Glass Passivated Super Fast Recovery Rectifier 50 to 600 Volts

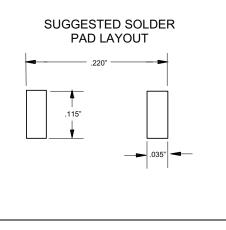
DLSF11

THRU

DLSF18



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.185	.205	4.70	5.20			
В	.018	.022	.46	.56			
С	.095	.105	2.40	2.67	Ø		



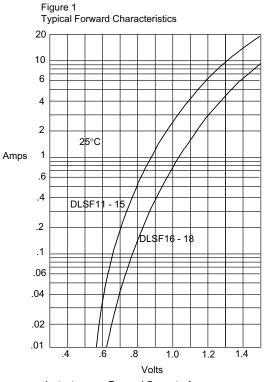
*Pulse Test: Pulse Width 300µsec, Duty Cycle 1% Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

 C_{J}

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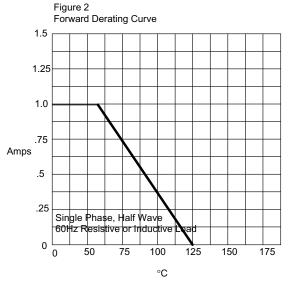
Revision: A

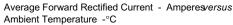
DLSF11 thru DLSF18

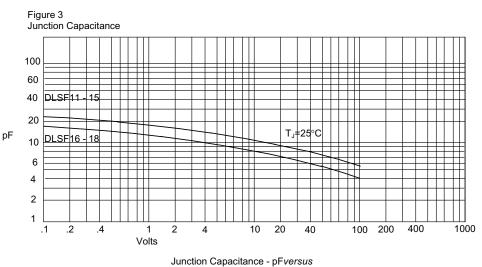


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts









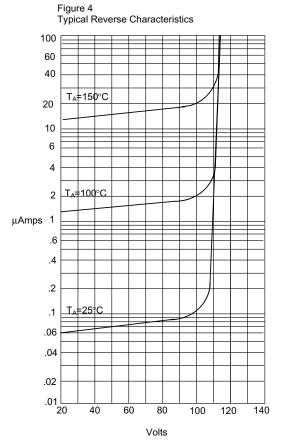
Reverse Voltage - Volts

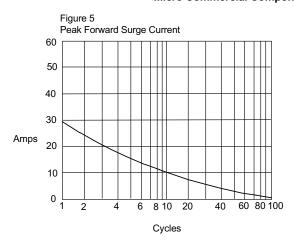
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DLSF11 thru DLSF18



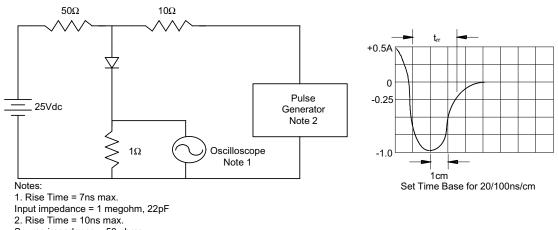


Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts

Figure 6

Reverse Recovery Time Characteristic And Test Circuit Diagram



Source impedance = 50 ohms 3. Resistors are non-inductive

3. Resistors are non-inductive

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Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 5Kpcs/Reel	

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