



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phon : (818) 701-4933 F x: (818) 701-4939

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

- 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

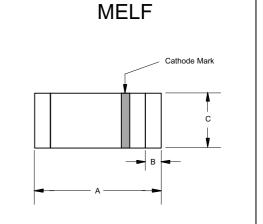
Average Forward Current	I _{F(AV)}	1 A	T _A = 55°C	
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine	
Maximum Instantaneous Forward Voltage				
DLSF11-DLSF15 DLSF16-DLSF18	V_F	.975V 1.75V	I _{FM} = 1.0A; T _A = 25°C	
Maximum DC				
Reverse Current At	I _R	5μΑ	T _A = 25°C	
Rated DC Blocking Voltage		50μΑ	T _A = 150°C	
Maximum Reverse Recovery Time16-18	T _{rr}	35ns 50ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	
Typical Junction				
Capacitance				
DLSF11-DLSF15	CJ	15pF	Measured at	
DLSF16-DLSF18		10pF	1.0MHz, V _R =4.0V	
Bulas Testi Bulas Width 200 years Duty Cycle 1%				

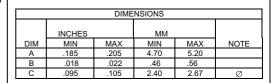


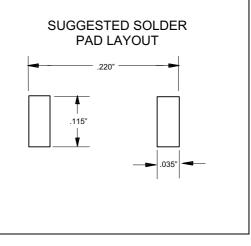
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DLSF11 THRU DLSF18

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



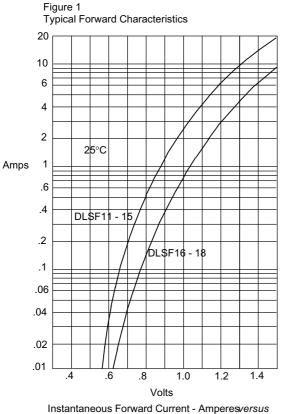




Revision: A

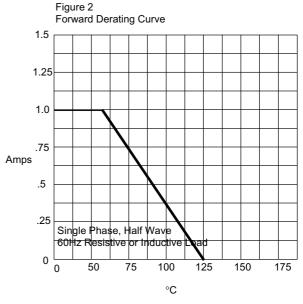
2011/01/01

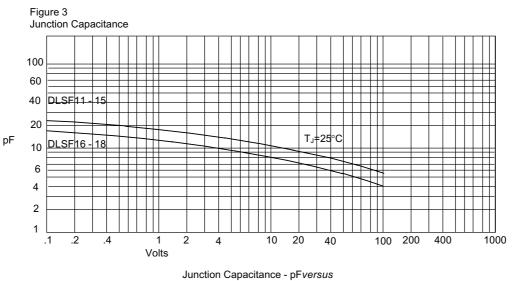
DLSF11 thru DLSF18



Instantaneous Forward Voltage - Volts







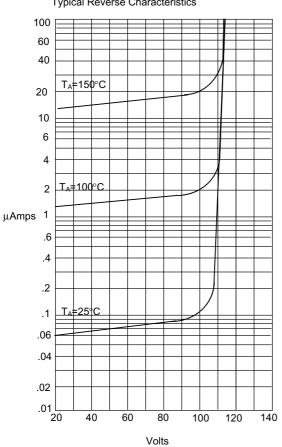
Reverse Voltage - Volts

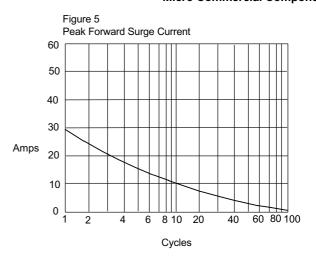
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DLSF11 thru DLSF18

Figure 4 Typical Reverse Characteristics





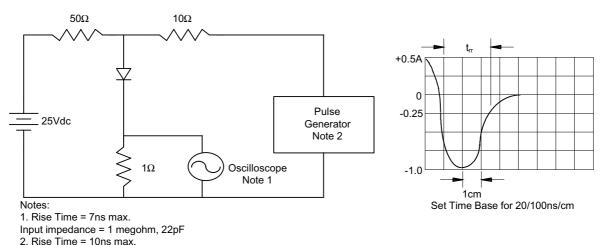
Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

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

Figure 6

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

Reverse Recovery Time Characteristic And Test Circuit Diagram



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Ordering Information :

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

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