



Micro Commercial Components



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DLFR106 THRU DLFR107

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Fast Switching Speed
- Surface Mount Applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating & Storage Temperature: -65°C to +150°C
- Maximum Thermal Resistance; 30°C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
DLFR106		800V	560V	800V
DLFR107		1000V	700V	1000V

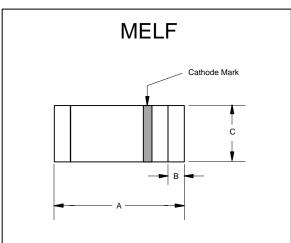
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _J =55°C
Peak Forward Surge	I _{FSM}	30A	8.3ms half
Current			sine
Maximum			I _{FM} =1.0A
Instantaneous	V_F	1.3V	$T_A=25$ °C
Forward Voltage			1 A=23 C
Maximum DC			
Reverse Current At	I_R		T _J =25°C
Rated DC Blocking		100µA	T _. =125°C
Voltage			J
Maximum Reverse			1 0 5 4
Recovery Times	t _{rr}		I _F =0.5A,
DLFR106		250ns	I _R =1.0A,
DLFR107		500ns	I _{rr} =0.25A
Typical lunction			Measured at
Typical Junction	C_{i}	15pF	1.0MHz,
Capacitance	,		V _R =4.0V

Pulse test: Pulse width 300 usec, duty cycle 1%.

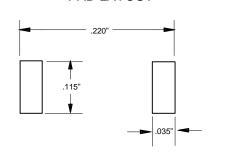
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

1 Amp Glass Passivated, Fast Recovery Rectifier 800 to 1000 Volts



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.190	.205	4.80	5.20		
В		.022		.55	Nominal	
C	.095	.105	2.40	2.67	Ø	

SUGGESTED SOLDER PAD LAYOUT

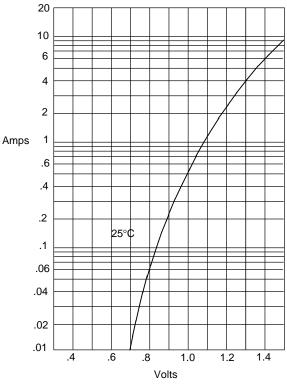


DLFR106 thru DLFR107

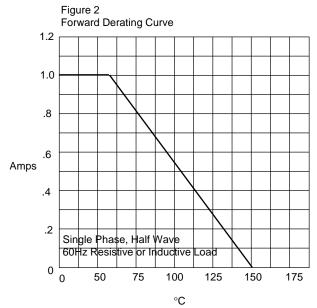


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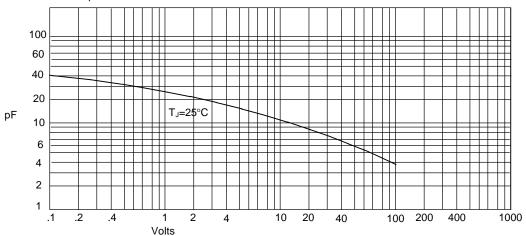


Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes/ersus Ambient Temperature - °C



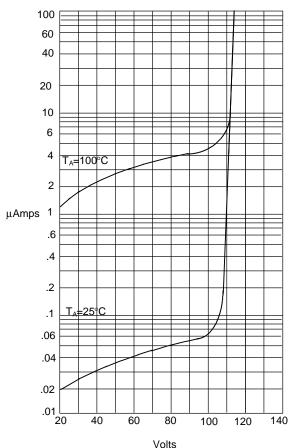


Junction Capacitance - pF*versus* Reverse Voltage - Volts

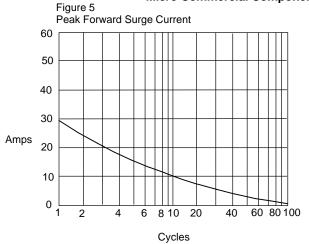
DLFR106 thru DLFR107



Figure 4
Typical Reverse Characteristics



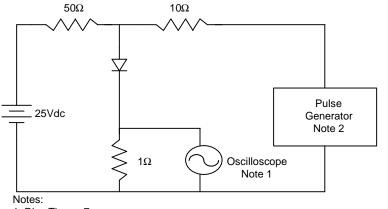
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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperes*ersus* Percent Of Rated Peak Reverse Voltage - Volts

Figure 6
Reverse Recovery Time Characteristic And Test Circuit Diagram



+0.5A

0

-0.25

-1.0

1cm

Set Time Base for 20/100ns/cm

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: 5Kpcs/Reel

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