

1A Surface Mount Schottky Rectifiers

Features

- Low profile in Melf (GL-41) package
- Low power loss, high efficiency
- Low forward voltage drop; Low leakage current
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- RoHS Compliant



Melf



Mechanical Data

Case:	JEDEC Melf (GL-41), molded plastic case
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026 Pure Tin plated, Pass Whisker test Class 1A per JESD 201
Polarity	Color band denotes the cathode end
Weight	0.15 gram

Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	MLL5817	MLL5818	MLL5819	Unit	Conditions
		SGL41-20	SGL41-30	SGL41-40		
VRRM	Max. Repetitive Peak Reverse Voltage	20	30	40	V	
VRMS	Max. RMS Voltage	14	21	28	V	
VDC	Max. DC Blocking Voltage	20	30	40		
IF(AV)	Average Forward Rectified Current	1.0			A	TL=50°C
IFSM	Peak Forward Surge Current	25			A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
VF	Max. Instantaneous Forward Voltage	0.45	0.50	0.55	V	IF=1.0A
IR	Max. Reverse Current @ VR = VRRM	1.0			mA	TA=25°C
		10			mA	TA=100°C
RthJA	Thermal Resistance Junction to Ambient	75			°C / W	
CJ	Junction Capacitance	80			pF	VR=4V, f=1MHz
TJ,TSTG	Operating Junction and Storage Temperature Range	-55 to +125			°C	

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MLL5817~MLL5819/SGL41-20~SGL41-40

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

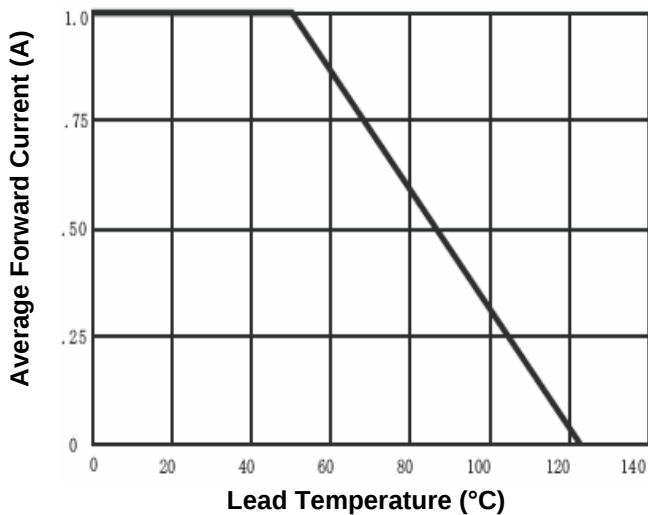


Fig.2- Non-repetitive Peak Forward Surge Current

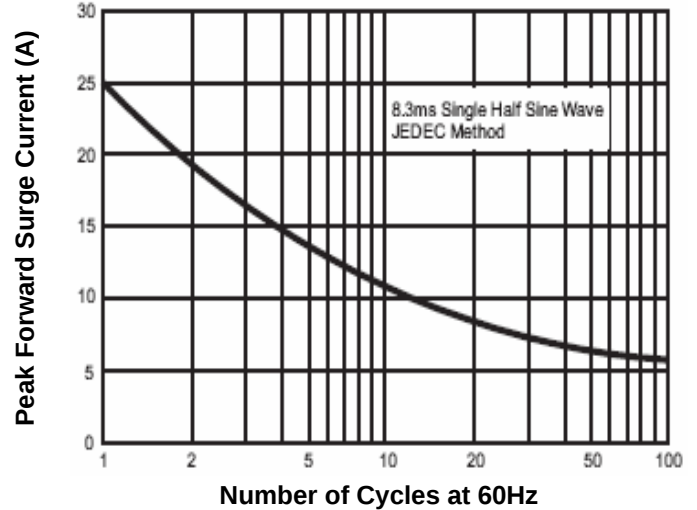


Fig.3- Typical Instantaneous Forward Characteristics

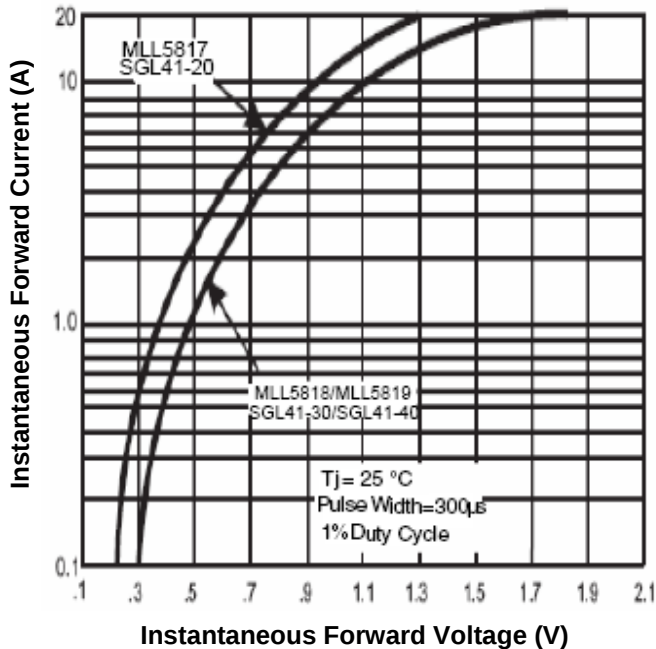
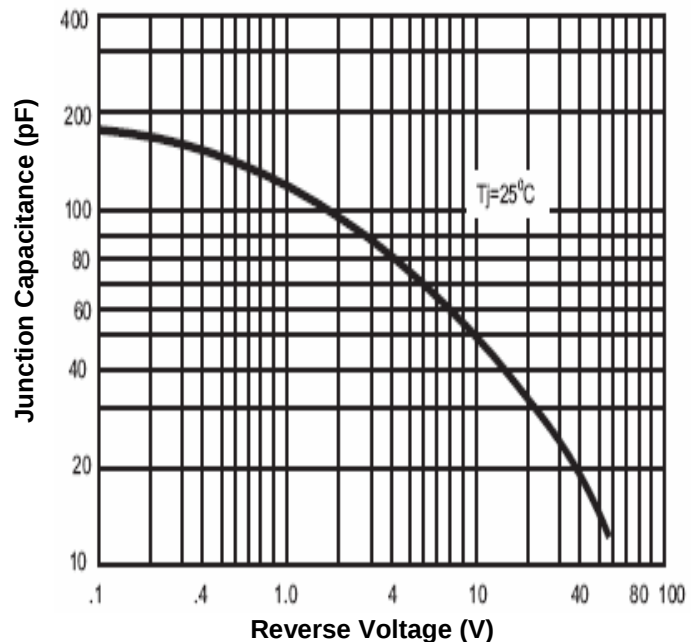


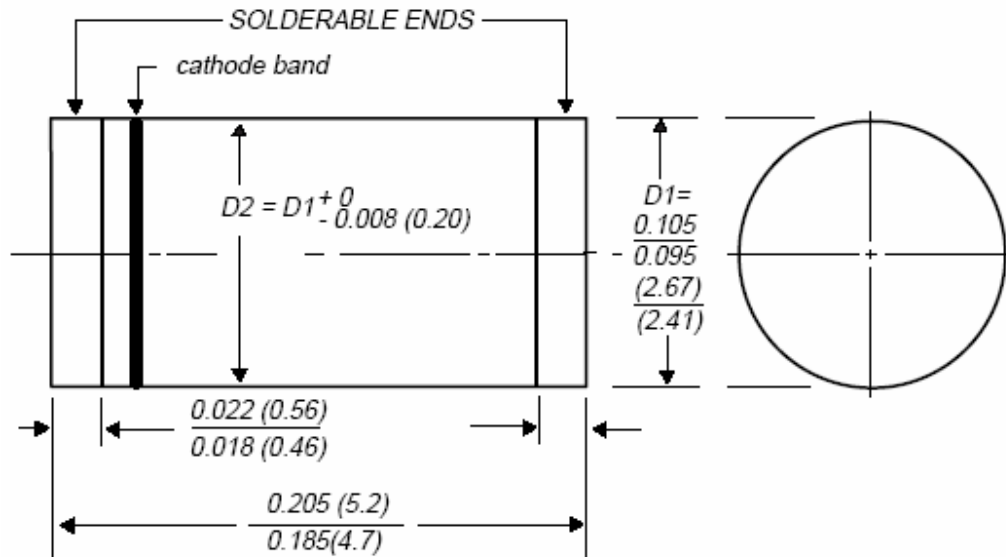
Fig.4- Typical Junction Capacitance



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Dimensions in inches (mm)



Melf

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