

### 1A Surface Mount Schottky Rectifier

#### 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

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

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

Symbol	Description	SGL41-60	Unit	Conditions
<b>VRRM</b>	Max. Repetitive Peak Reverse Voltage	60	V	
<b>VRMS</b>	Max. RMS Voltage	42	V	
<b>VDC</b>	Max. DC Blocking Voltage	60		
<b>IF(AV)</b>	Average Forward Rectified Current	1.0	A	TL=50°C
<b>IFSM</b>	Peak Forward Surge Current	25	A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
<b>VF</b>	Max. Instantaneous Forward Voltage	0.70	V	IF=1.0A
<b>IR</b>	Max. Reverse Current @ VR = VRRM	1.0	mA	TA=25°C
		10	mA	TA=100°C
<b>RthJA</b>	Thermal Resistance Junction to Ambient	75	°C / W	
<b>CJ</b>	Junction Capacitance	80	pF	VR=4V, f=1MHz
<b>TJ,TSTG</b>	Operating Junction and Storage Temperature Range	-55 to +125	°C	

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SGL41-60

## Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

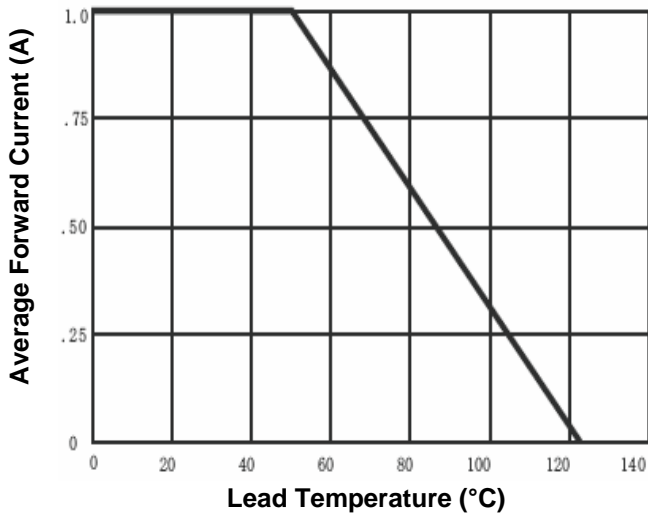


Fig.2- Non-repetitive Peak Forward Surge Current

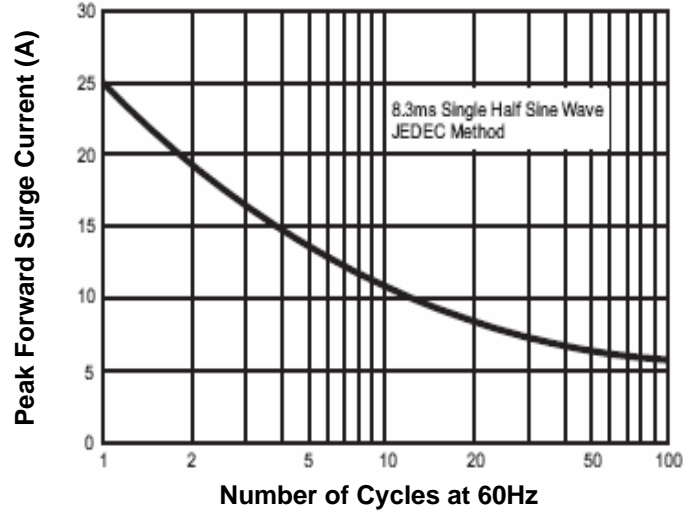


Fig.3- Typical Instantaneous Forward Characteristics

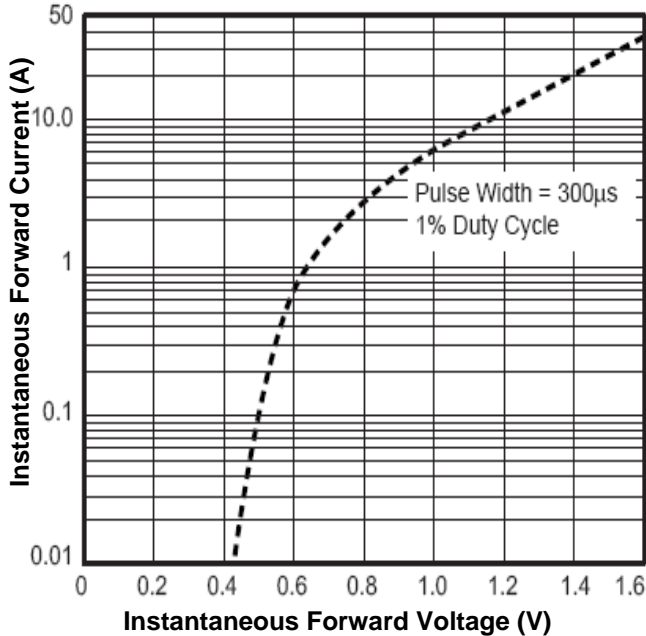
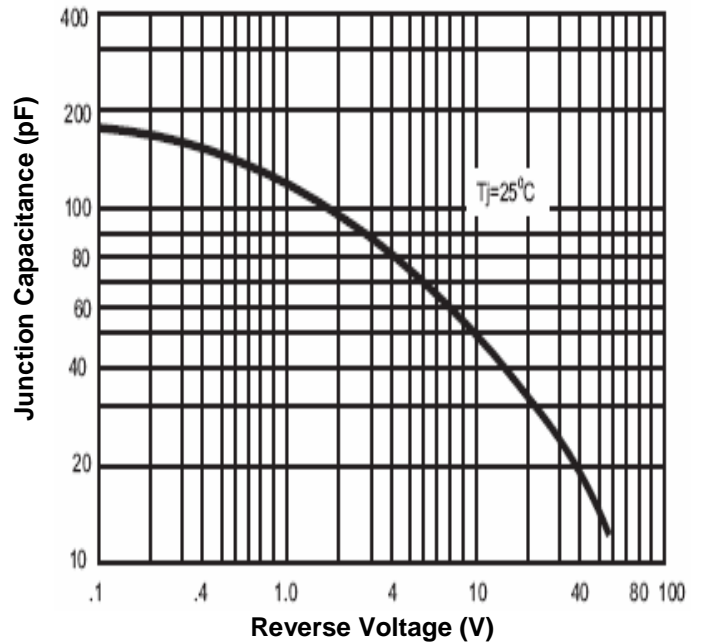


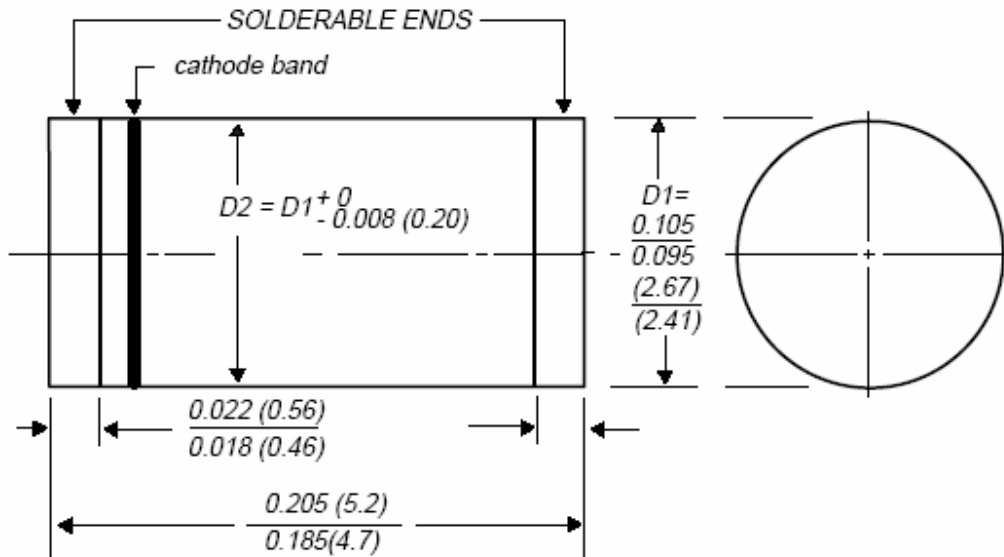
Fig.4- Typical Junction Capacitance



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## Dimensions in inches (mm)



Melf

## How to contact us

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