

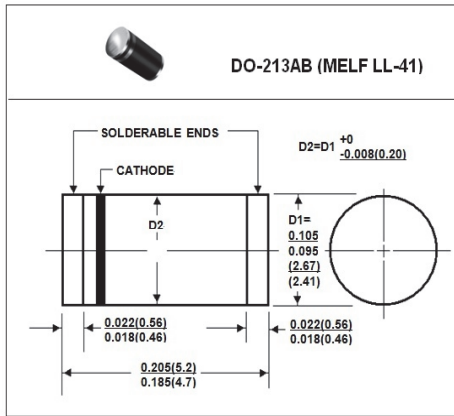


SHANGSI

# GL41A thru GL41Y

表面安装整流二极管  
反向电压 50 --- 1600 V  
正向电流 1A

Surface Mount Rectifiers  
Reverse Voltage 50 to 1600 V  
Forward Current 1 A



## 特征 Features

- 表面安装应用 For surface mount applications
- 玻璃钝化烧结 Glass passivated chip junction
- 低漏电流 Low leakage current
- 高正向浪涌能力 High forward surge capability
- 高温焊接保证 260°C/10秒 High temperature soldering guaranteed: 260°C/10 seconds at terminals
- 引线 and 管体皆符合 RoHS 标准。Lead and body according with RoHS standard

## 机械数据 Mechanical Data

- 封装: 塑料封装 Case: Molded plastic body
- 端子: 焊料被镀 Terminals: Solder plated
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any
- 重量 0.0046盎司, 0.116克 Weight: 0.0046 ounce, 0.116 gram

极限值和温度特性  $T_A = 25^\circ\text{C}$  除非另有规定。

## Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	GL41A	GL41B	GL41D	GL41G	GL41J	GL41K	GL41M	GL41T	GL41Y	Unit
最大反向峰值电压 Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	1300	1600	V
最大反向有效值电压 Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	910	1120	V
最大直流阻断电压 Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	1300	1600	V
最大正向平均整流电流 Maximum average forward rectified current (see fig.1)	$I_{F(AV)}$	1.0									A
正向峰值浪涌电流 8.3ms单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	$I_{FSM}$	30									A
最大反向满负载漏电流 Maximum full load reverse current, full cycle average at $T_A = 75^\circ\text{C}$	$I_{R(AV)}$	30									$\mu\text{A}$
典型热阻 (NOTE 2) Typical thermal resistance (NOTE 3)	$R_{\theta JA}$ $R_{\theta JT}$	75 30									$^\circ\text{C/W}$
工作结温和存储温度 Operating junction and storage temperature range	$T_J, T_{STG}$	-50---+150									$^\circ\text{C}$

电特性  $T_A = 25^\circ\text{C}$  除非另有规定。

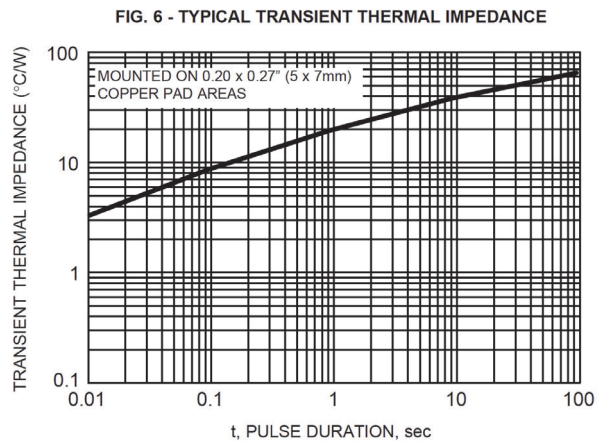
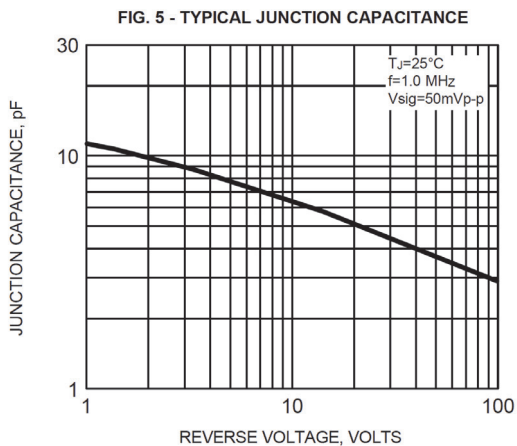
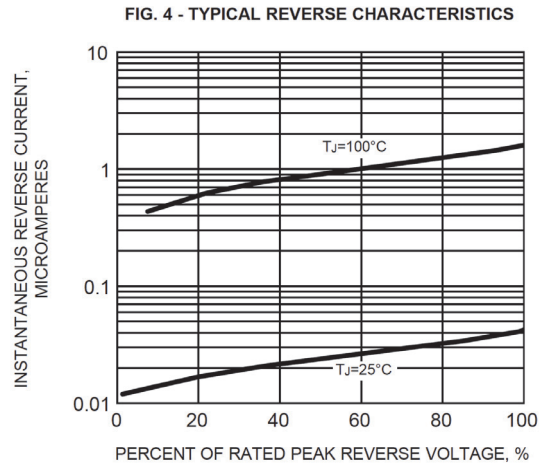
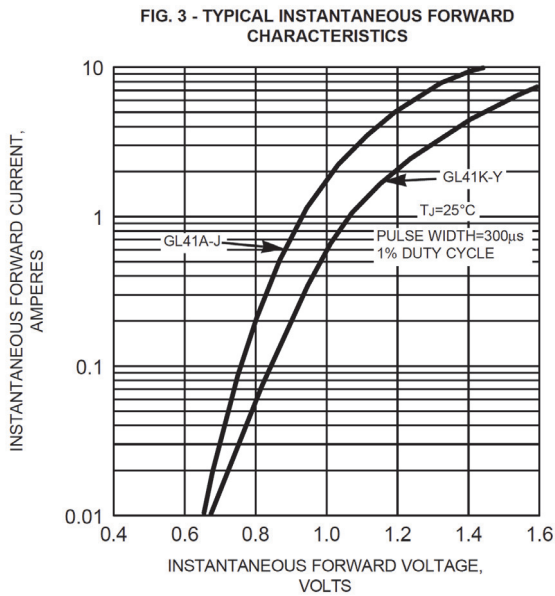
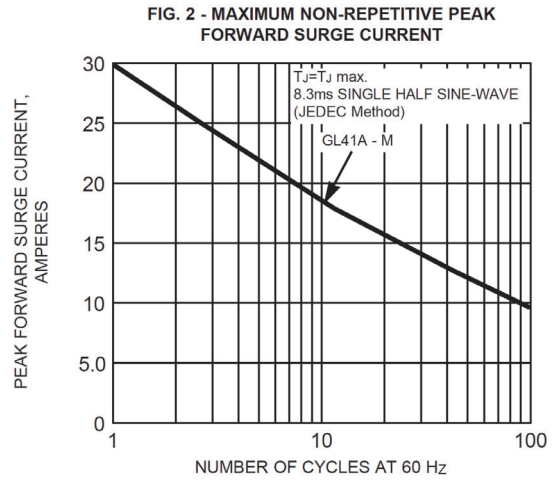
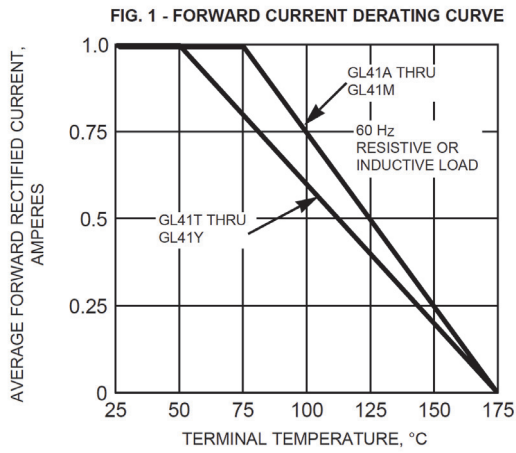
## Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	GL41A	GL41B	GL41D	GL41G	GL41J	GL41K	GL41M	GL41T	GL41Y	Unit
最大瞬间正向电压 $I_F = 1.0\text{A}$ Maximum instantaneous forward voltage at 1.0A	$V_F$	1.1					1.2				V
最大反向直流漏电流 $T_A = 25^\circ\text{C}$ Maximum DC reverse current $T_A = 125^\circ\text{C}$	$I_R$	10					50				$\mu\text{A}$
典型结电容 (NOTE 1) Type junction capacitance	$C_J$	8									pF

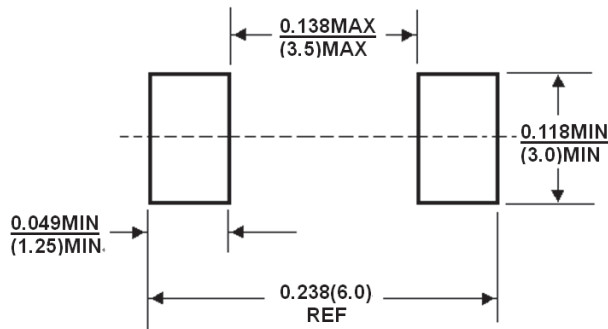
NOTES:

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0 Volts
- (2) Thermal resistance from junction to ambient,  $0.24 \times 0.24'' (6.0 \times 6.0\text{mm})$  copper pads to each terminal
- (3) Thermal resistance from junction to terminal,  $0.24 \times 0.24'' (6.0 \times 6.0\text{mm})$  copper pads to each terminal

## 特性曲线 CHARACTERISTIC CURVES



### Mounting Pad Layout



### Packing

Part number	Component Package	Quantity	Packaging Option
GL41A—GL41Y	DO-213AB( MELF LL-41)	5000	Tape & Reel – 12mm/13" tape

### Tape and Reel Specification

