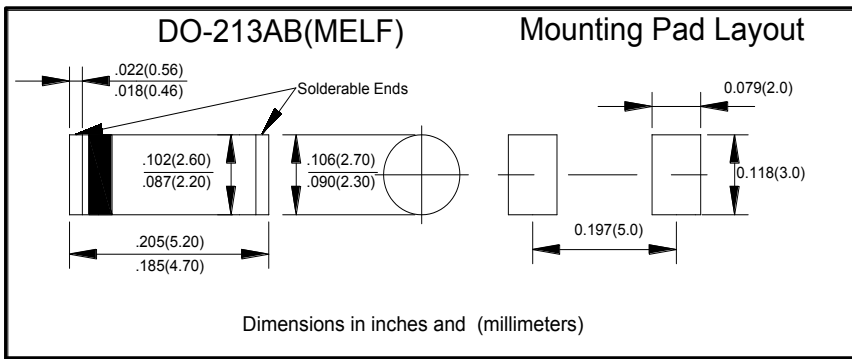


General Purpose Rectifier



Features

- I_o 1.0A
- V_{RRM} 50V-1000V
- High surge current capability
- Cases: Molded plastic

Applications

- Rectifier

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	LL40						
				01	02	03	04	05	06	07
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, $T_a=75^\circ\text{C}$	1.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave ,1 cycle , $T_a=25^\circ\text{C}$	30						
Junction Temperature	T_J	$^\circ\text{C}$		-55~+150						
Storage Temperature	T_{STG}	$^\circ\text{C}$		-55 ~ +150						

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	LL40						
				01	02	03	04	05	06	07
Peak Forward Voltage	V_F	V	$I_F=1.0A$	1.1						1.2
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$						
	I_{RRM2}			$T_a=125^\circ\text{C}$						
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ\text{C/W}$	Between junction and ambient				75 ¹⁾			
	$R_{\theta J-T}$		Between junction and terminal				30 ²⁾			

Notes:

¹⁾ Thermal resistance from junction to ambient, 0.24" x 0.24" (6.0 mm x 6.0 mm) copper pads to each terminal

²⁾ Thermal resistance from junction to terminal, 0.24" x 0.24" (6.0 mm x 6.0 mm) copper pads to each terminal



LL4001 THRU LL4007

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
LL4001 THRU LL4007	F1	Approximate 0.0306	5000	10000	50000	13" reel

■ Characteristics (Typical)

图1: 正向电流降额曲线
FIG.1: FORWARD CURRENT DERATING CURVE

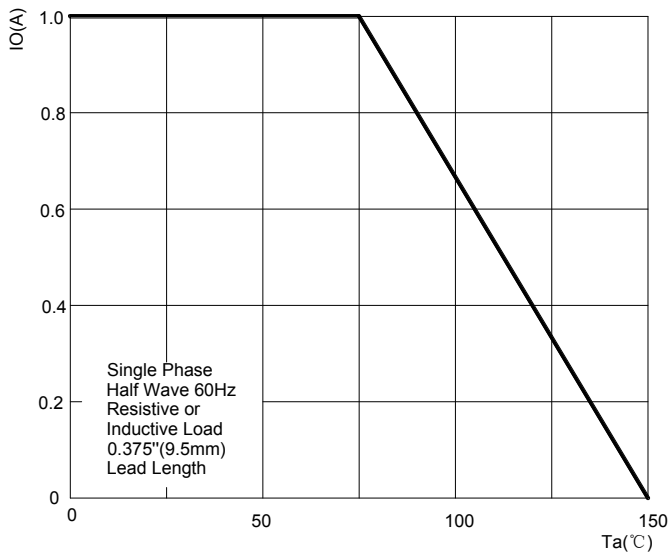


图2: 最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

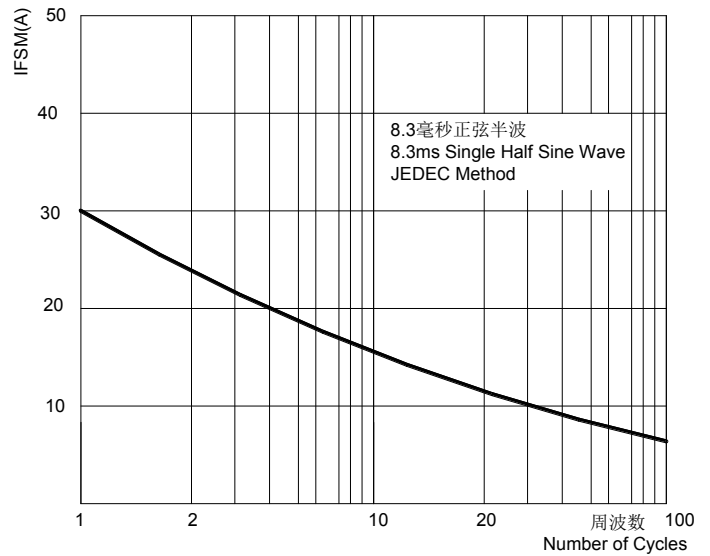


图3: 典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

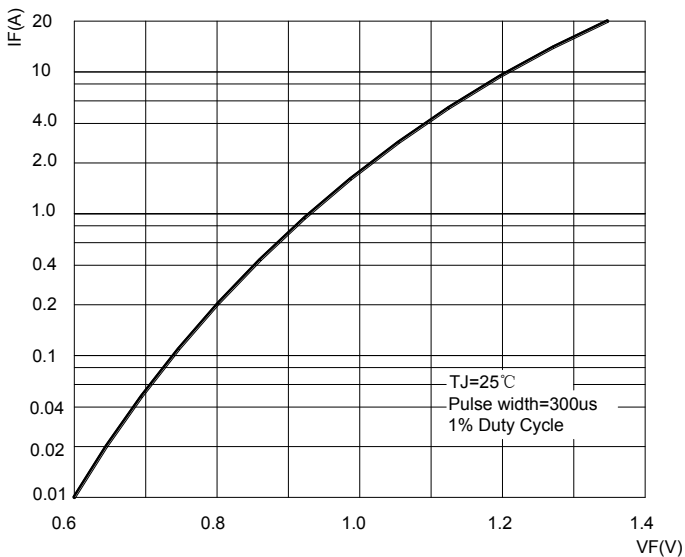
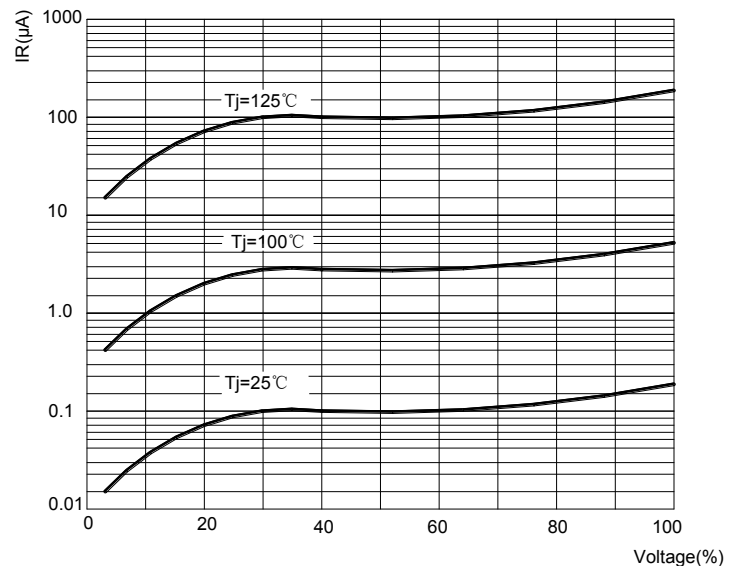


图4: 典型反向特性曲线
FIG.4: TYPICAL REVERSE CHARACTERISTICS





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