

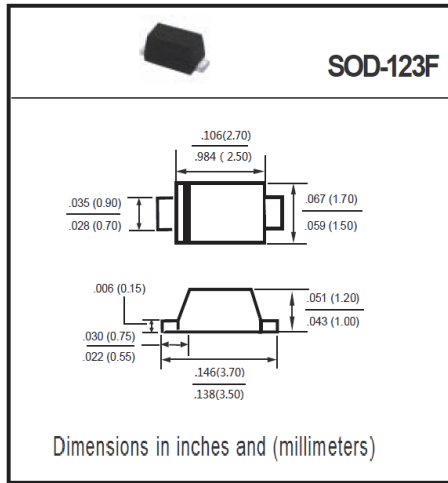


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表面安装超快速整流二极反
向电压 50 --- 1000 V
正向电流 0.7A

US07A thru US07M

Surface Mount Ultra Fast Recover Rectifiers
Reverse Voltage 50 to 1000 V
Forward Current 0.7 A



特征 Features

- 低的反向漏电流 Low reverse leakage
- 玻璃钝化芯片 Glass passivated chip junction
- 较强的正向浪涌承受能力 High forward surge capability
- 快速开关高频应用 Fast switching for high efficiency
- 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

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.

Marking	Symbols	US07A UA	US07B UB	US07D UD	US07G UG	US07J UJ	US07K UK	US07M UM	Unit
最大反向峰值电压 Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
最大反向有效值电压 Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	0.7							A
正向峰值浪涌电流 8.3ms 单一直半波 Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	20							A
最大反向峰值电流 @ $T_A = 75^\circ\text{C}$ Maximum peak reverse current full cycle	$I_{R(AV)}$	30							Ua
典型热阻 Typical thermal resistance	$R_{\theta JA}$	180							°C/W
工作结温和存储温度 Operating junction and storage temperature range	T_J, T_{STG}	-50---+150							°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	US07A	US07B	US07D	US07G	US07J	US07K	US07M	Unit
最大正向电压 $I_F = 0.7A$ Maximum forward voltage	V_F	1.0			1.40	1.7			V
最大反向漏电流 $T_A = 25^\circ\text{C}$ Maximum reverse current	I_R	10							uA
最大反向恢复时间 $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$ MAX. Reverse Recovery Time	trr	35			50	75			nS
典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance	C_J	20							pF



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US07A thru US07M

特性曲线 RATING AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

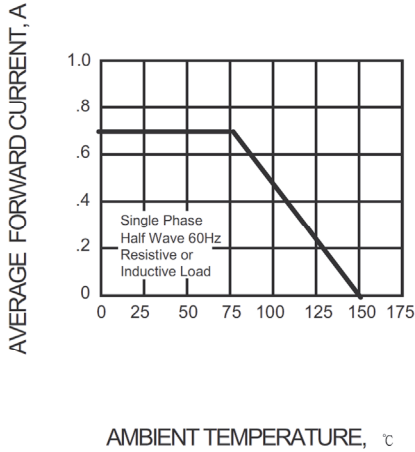


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

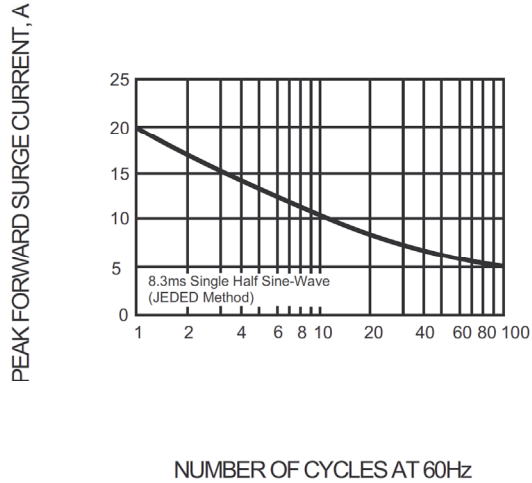


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

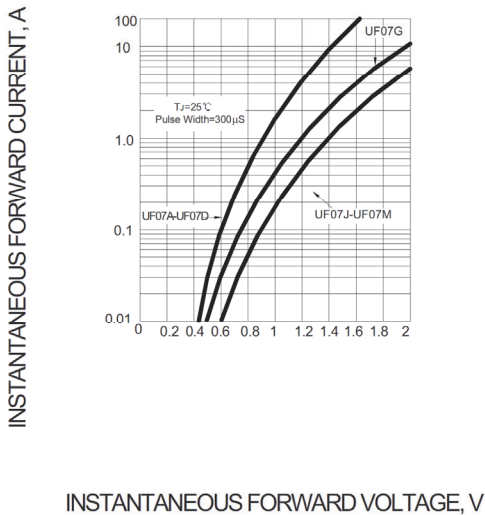
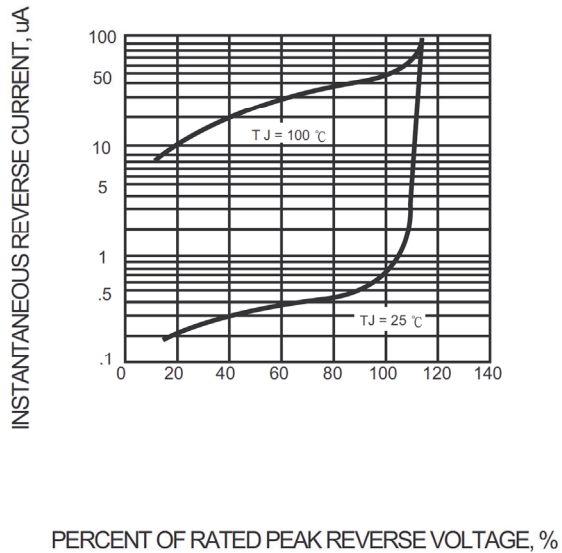
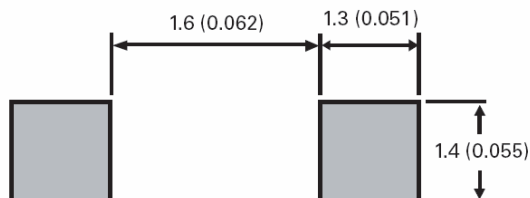


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



Mounting Pad Layout



Packing

Part number	Component Package	Quantity	Packaging Option
UFM11PL-UFM18PL	SOD-123F	3000	Tape & Reel – 8mm/7" tape
		10000	Tape & Reel – 8mm/13" tape

Tape and Reel Specification

