



SHANGSI

S07A thru S07M

表面安装整流二极管

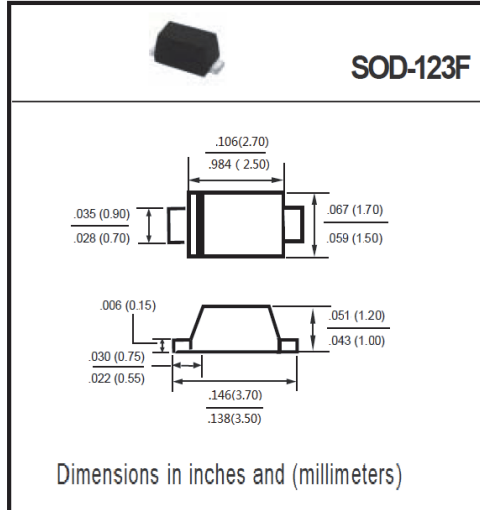
反向电压 50 --- 1000 V

正向电流 1.0A

Surface Mount Rectifiers

Reverse Voltage 50 to 1000 V

Forward Current 1.0A



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
- 高温焊接保证 260℃/10秒 High temperature soldering guaranteed: 260℃/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.

	Symbols	S07A	S07B	S07C	S07G	S07J	S07K	S07M	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—正弦半波 Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	25							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							$^\circ\text{C}/\text{W}$
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	S07A	S07B	S07C	S07G	S07J	S07K	S07M	Unit
最大正向电压 $I_F = 1.0\text{A}$ Maximum forward voltage	V_F	1.10							V
最大反向漏电流 $T_A = 25^\circ\text{C}$ Maximum reverse current $T_A = 100^\circ\text{C}$	I_R	5.0 50							uA
典型结电容 $V_R = 4.0\text{V}, f = 1\text{MHz}$ Type junction capacitance	C_J	4							pF

特性曲线 CHARACTERISTIC CURVES

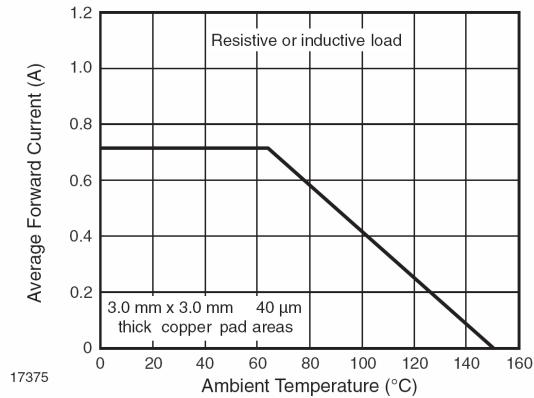


Fig. 1 - Forward Current Derating Curve

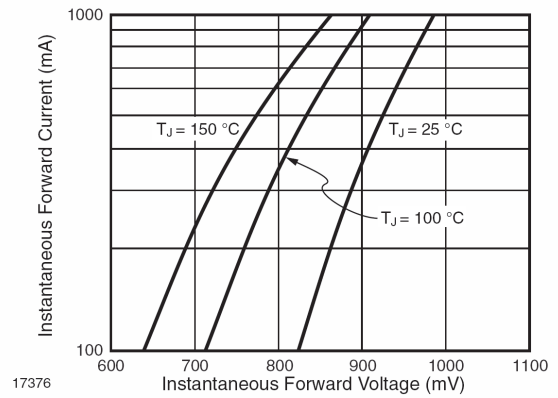


Fig. 2 - Typical Instantaneous Forward Characteristics

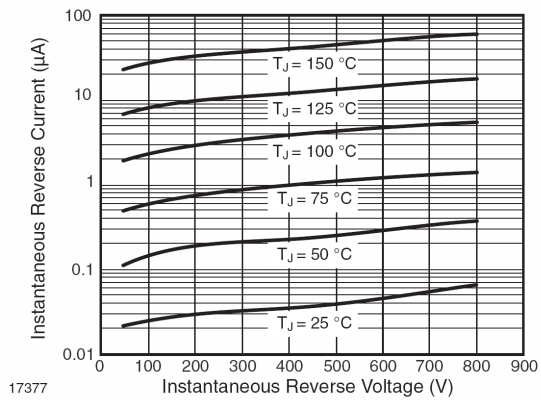


Fig. 3 - Typical Instantaneous Reverse Characteristics

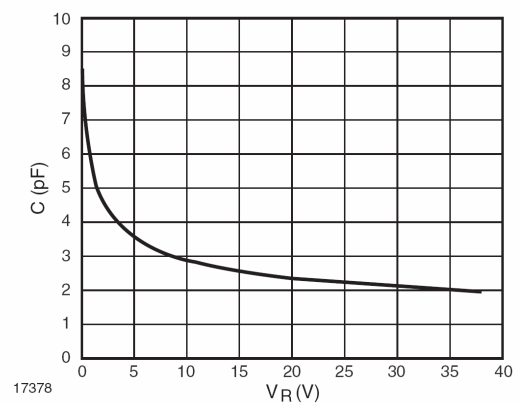
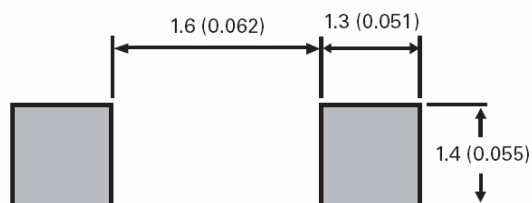


Fig. 4 - Capacitance vs. Reverse Voltage

Mounting Pad Layout



Packing

Part number	Component Package	Quantity	Packaging Option
S07A-S07M	SOD-123F	3000	Tape & Reel – 8mm/7" tape
		10000	Tape & Reel – 8mm/13" tape

Tape and Reel Specification

