DF005S thru DF10S

表面安装桥式整流二极管

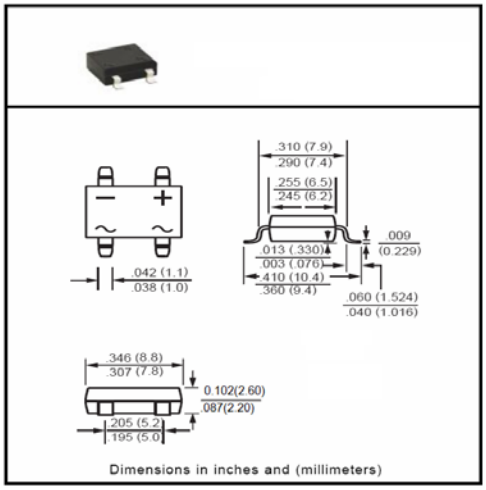
反向电压**50 --- 1000 V**

正向电流**1.0A**

Surface Mount Bridge Rectifiers

Reverse Voltage 50 to 1000 V

Forward Current 1.0 A



特征 Features

- 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: 260/10seconds at terminals
- 引线和管体皆符合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: 标记模压或印于本体 Polarity: Symbols molded or marked on body
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性 T_A = 25℃ 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25℃ambient temperature unless otherwise specified.

	Symbols	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	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	$I_{F(AV)}$	1							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}	50							A
最大反向峰值电流 @T_A = 75℃ Maximum peak reverse current full cycle	$I_{R(AV)}$	30							uA
典型热阻 Typical thermal resistance	$R_{\theta JA}$	40							℃/W
工作结温和存储温度 Operating junction and storage temperature range	T_J, T_{STG}	-50---+150							℃

电特性 T_A = 25℃除非另有规定。

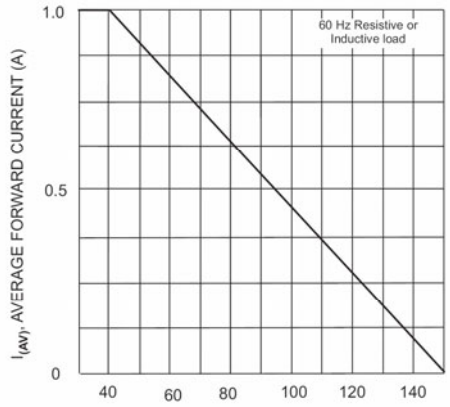
Electrical Characteristics Ratings at 25℃ambient temperature unless otherwise specified.

	Symbols	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	Unit
最大正向电压 IF = 1.0A Maximum forward voltage	V_F	1. 1							V
最大反向漏电流 Maximum reverse current	I_R	T_A= 25℃ 5.0 T_A= 125℃ 500							uA
典型结电容 VR = 4.0V, f = 1MHz Type junction capacitance	C_J	13							pF

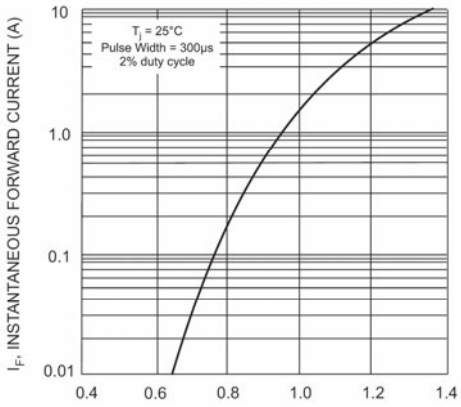
Notes: (1) On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3 mm) pads
(2) On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20 mm) mounted on 0.05 x 0.05" (1.3 x 1.3 mm) solder pad

特性曲线 （T_A = 25℃ 除非另有规定)

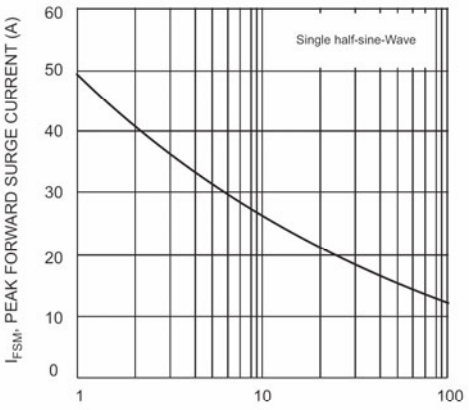
RATINGS AND CHARACTERISTICS CURVES(T_A = 25 °C unless otherwise noted)



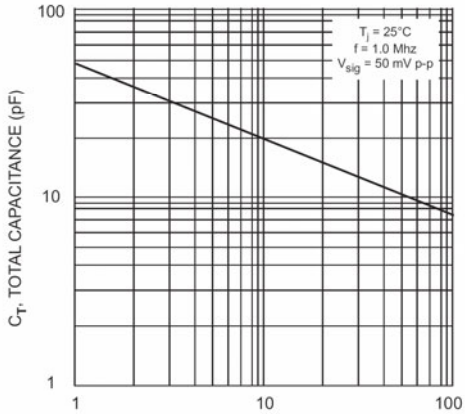
T_A, AMBIENT TEMPERATURE (°C)
Fig. 1 Output Current Derating Curve



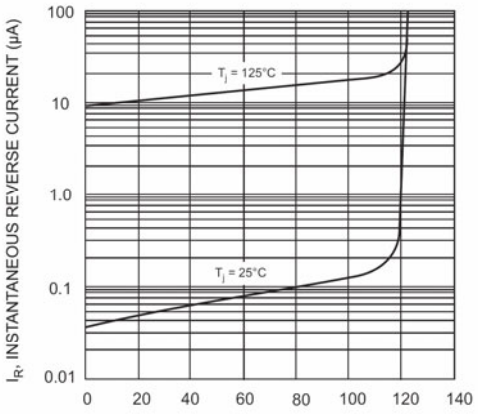
V_F, INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typ Forward Characteristics (per element)



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Max Non-Repetitive Peak Forward Surge Current



V_R, REVERSE VOLTAGE (V)
Fig. 4 Typical Total Capacitance (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 5 Typ Reverse Characteristics (per element)