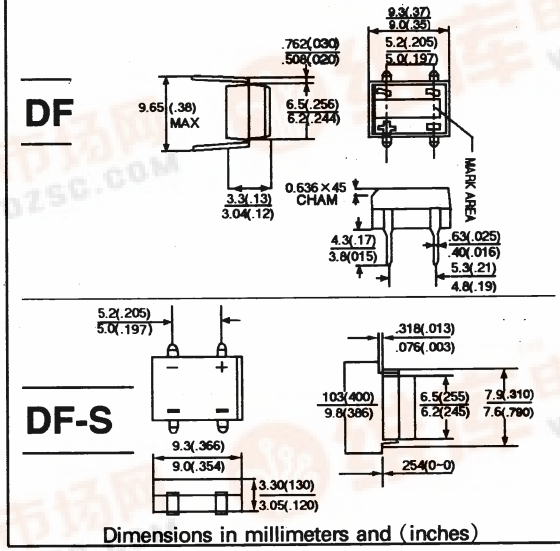
DF005G THRU DF10G DF005S THRU DF10S

SINGLE PHASE 1.0 AMP GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

* Ideal for printed circuit board
* Reliable low cost construction utilizing molded plastic technique
* High surge current capability
* Small size, simple installation
* Leads solderable per MIL-STD-202, method 208

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
1.0 Ampere



Dimensions in millimeters and (inches)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	DF005G DF005S	DF01G DF01S	DF02G DF02S	DF04G DF04S	DF06G DF06S	DF08G DF08S	DF10G DF10S	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A = 40℃$	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	30							A
Maximum Forward Voltage Drop per element @ 1.0A	V_F	1.10							V
Maximum Reverse Current at Rated @ $T_A = 25℃$ D.C. Blocking Voltage per element @ $T_A = 125℃$	I_R	10 500							μA μA
Operating Temperature Range	T_J	− 55 to + 125							℃
Storage Temperature Range	T_{STG}	− 55 to + 150							℃

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RATINGS AND CHARACTERISTIC CURVES (DF005G THRU DF10G / DF005S THRU DF10S)

FIG.1 – DERATING CURVE FOR OUTPUT CURRENT

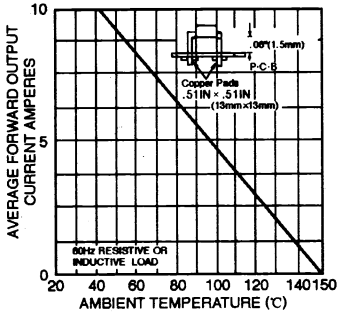


FIG.2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE CURRENT

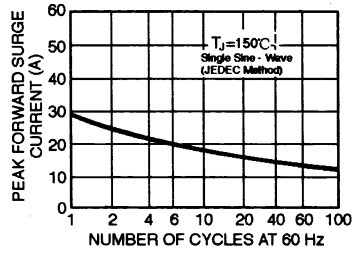


FIG.3 – TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

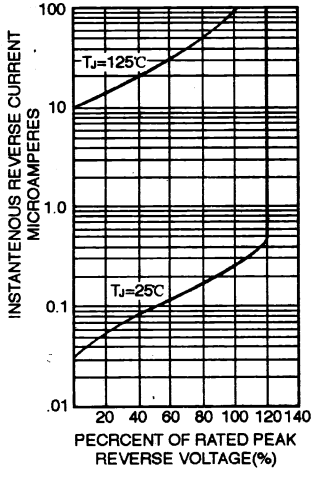
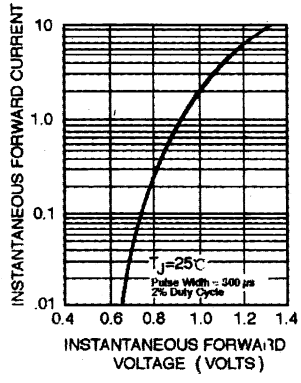


FIG.4 – TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



FGI.5 – TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT