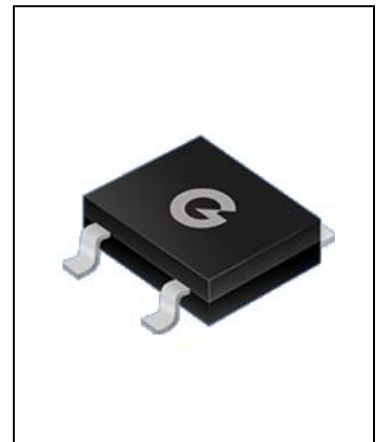


SILICON BRIDGE RECTIFIERS

DF150S--DF1510S

FEATURES

- Rating to 1000V PRVP
- Surge overload rating to 40 Amperes peak
- Glass passivated chip junctions
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208
- Lead: silver plated copper, solderde plated
- Plastic material has UL flammability classification94V-O



Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	DF150S	DF1501S	DF1502S	DF1504S	DF1506S	DF1508S	DF1510S	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Reverse Voltage	V_{RMS}	35	75	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward Output current @TA=40°C	$I_{F(AV)}$	1.5							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	40							A

Thermal Characteristics

Characteristic	Symbol	DF150S	DF1501S	DF1502S	DF1504S	DF1506S	DF1508S	DF1510S	UNITS
Operating junction temperature range	T_J	-55 -- +150							°C
Storage temperature range	T_{STG}	-55 -- +150							°C

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	DF150S	DF1501S	DF1502S	DF1504S	DF1506S	DF1508S	DF1510S	UNITS
Maximum instantaneous forward voltage at 1.5A	V_F	1.1							V
Maximum reverse current @TA=25°C at rated DC blocking voltage @TA=100°C	I_R	10							μ A
		1.0							m A



SILICON BRIDGE RECTIFIERS

DF150S--DF1510S

PACKAGE OUTLINE DIMENSIONS

DFS		
Dim	Min	Max
A	8.20	8.60
B	6.10	6.50
C	2.35	2.65
D	9.80	10.20
E	0.15	0.35
F	0.90	1.50
G	0.20MAX	
H	2.50	2.80
I	1.00	1.40
K	4.80	5.20
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
DF150S--DF1510S	DFS	50unit/pipe



SILICON BRIDGE RECTIFIERS

DF150S--DF1510S

FIG.1 -- TYPICAL FORWARD CURRENT DERATING CURVE

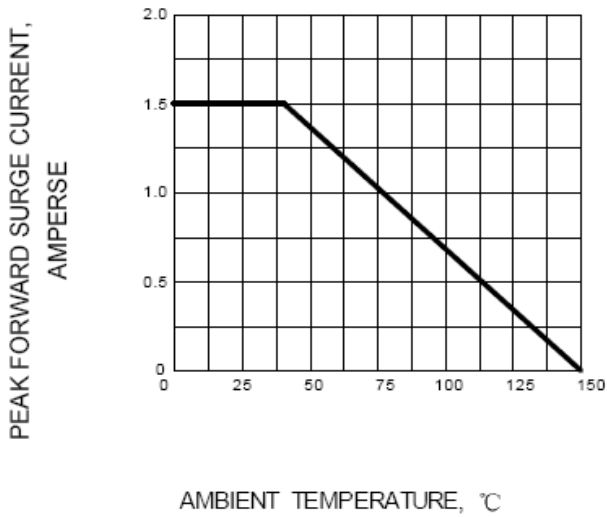


FIG.2 -- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

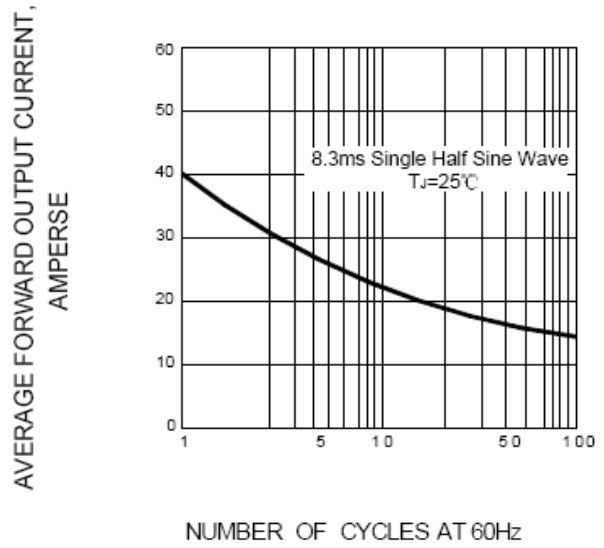


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

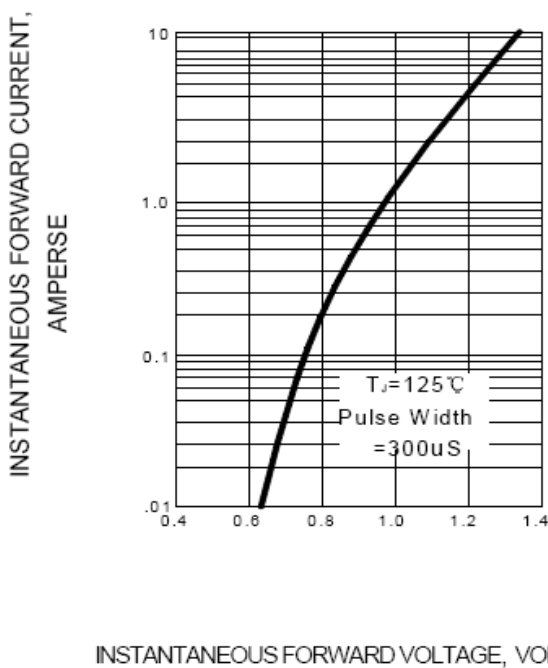


FIG.4 -- TYPICAL REVERSE CHARACTERISTIC

