JGD

MSBL054

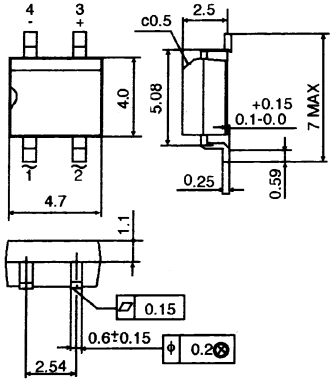
SINGLE PHASE 0.5 AMP GLASS PASSIVATED BRIDGE RECTIFIERS

VOLTAGE RANGE
400 Volts
CURRENT
0.5 Ampere

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
* Weight: 0.13g

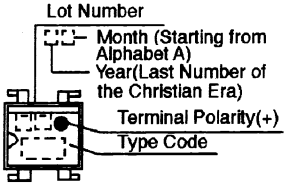
MINI-DFS



Dimensions in milimeters

Maximun Ratings ($T_A = 25℃$)

Characteristics	Symbols	Ratings	Units
Repetitive peak reverse voltage	V_{RRM}	400	Volts
Average output rectified current	I_o	0.5 0.8*	Amp
Peak one cycle surge forward current (Non Repetitive)	I_{FSM}	30(50Hz) 33(60Hz)	Amps
Junction temperature	T_j	– 40 to 150	℃
Storage temperature range	T_{stg}	– 40 to 150	℃



Color: Silver

Symbol	Device Type
4L	MDBL054

Electrical Characteristics ($T_A = 25℃$)

Characteristics	Symbols	Test Conditions	Min.	Typ.	Max.	Units
Peak forward voltage (Note)	V_{FM}	I_{FM} = 20mA	–	–	0.65	Volt
Repetitive peak reverse current (Note)	I_{RRM}	V_{RRM} = Rated	–	–	100	μA
Thermal resistance	$R_{th(J-A)}$	Junction to Amblent	–	–	130 7.5*	℃/W

Note: A value of on cell.

* On alumina substrate

RATINGS AND CHARACTERISTIC CURVES (MSBL054)

FIG.1 I_F-V_F

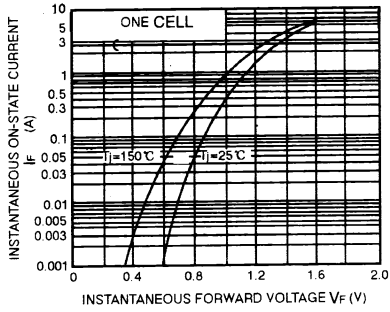


FIG.2 $P_{F(AV)}$-I_O

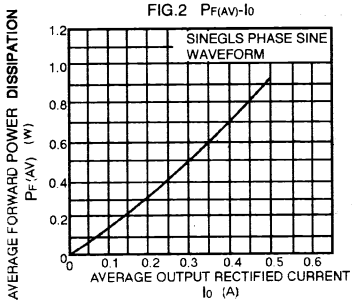


FIG.3 Ta MAX-I_O

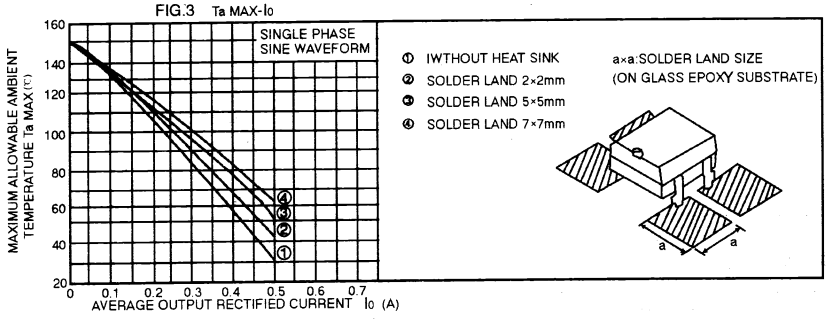


FIG.4 SURGE FORWARD CURRENT (NON-REPETITIVE)

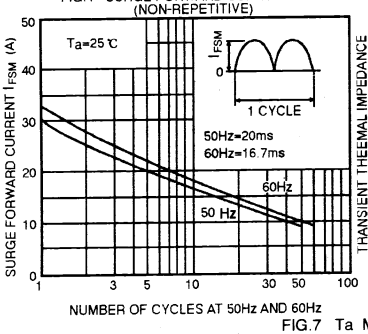


FIG.5 $r_{th(j-a)}$-t

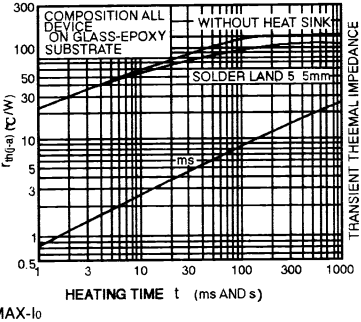


FIG.6 $r_{th(j-a)}$-t

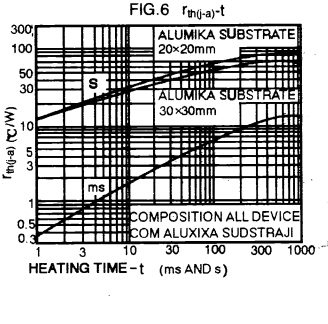
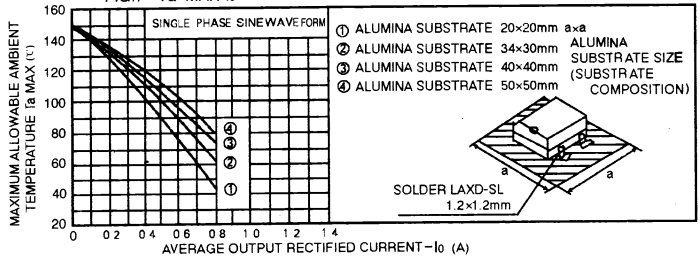



FIG.7 Ta MAX-I_O