YZPST

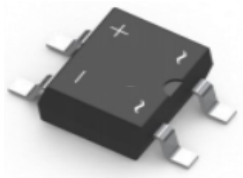
YZPST Group

MB05S-MB10S

BRIDGE RECTIFIER

FEATURES

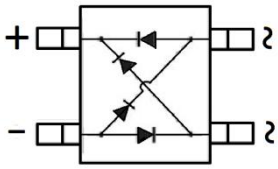
- Low Reverse voltage leakage current
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High forward surge current capability
- Small Surface Mount device



MB-S

MECHANICAL DATA

- Case: MB-S
- Case Material: Molded Plastic. UL flammability
- Classification Rating: 94V-0
- Weight: 0.22 grams (approximate)



MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Parameter	Symbol	MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	Unit
Repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
DC Reverse Voltage	V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Mean rectifying current	I_F	0.5/0.8							A
Non-Repetitive Peak Forward Surge Current @ t = 8.3 ms	I_{FSM}	30							A
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	90							°C/W
Junction Temperature	T_J	-55 ~+150							°C
Storage Temperature	T_{STG}	-55 ~+150							°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Min	Max	Unit	Conditions
Forward voltage	V_F		1.0	V	I_F=0.5A
Forward voltage	V_F		1.1	V	I_F=0.8A
Reverse current T=25°C	I_R		5	uA	V_R=V_{RRM}
Reverse current T=125°C	I_R		40	uA	V_R=V_{RRM}
Junction capacitance	C_J		13	pF	V=4V_{DC},f=1MH

BRIDGE RECTIFIER

Typical Characteristics

Fig.1- Output Current Derating Curve

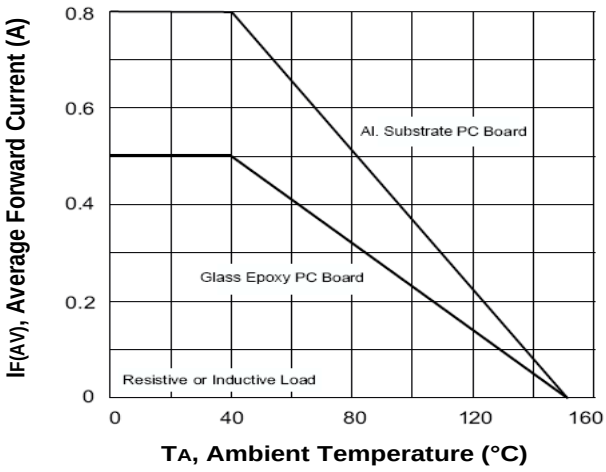


Fig.2-Max. Non-repetitive Peak Forward Surge Current per leg

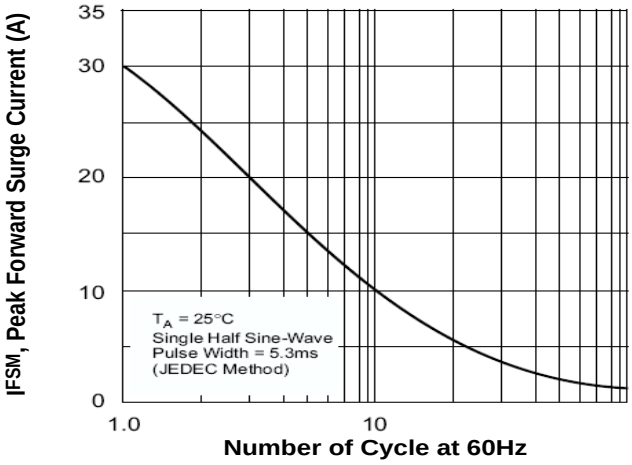


Fig.3-Typical Instantaneous Forward Characteristic per leg

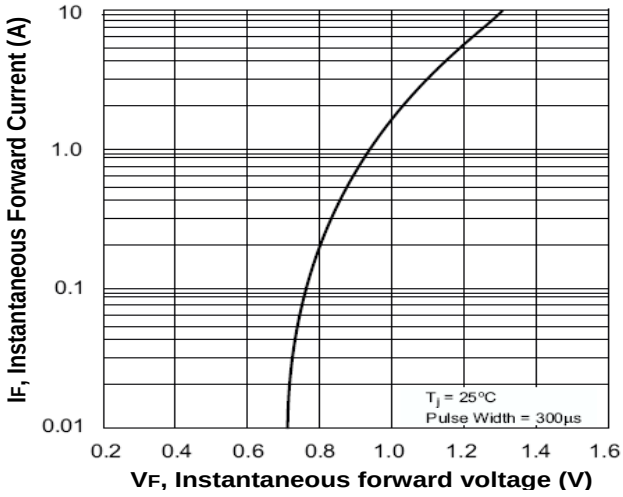


Fig.4-Typical Reverse Characteristics per leg

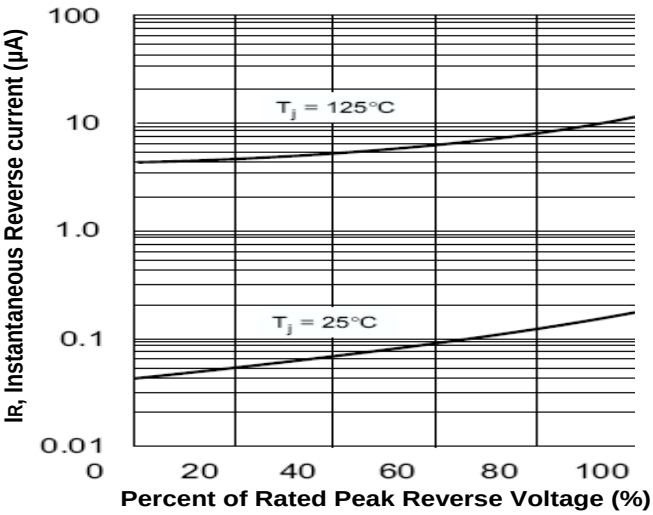


Fig.5-Typical Junction Capacitance