Elektronische Bauelemente

TMBR6S05

Voltage 600V

0.5 Amp Silicon Bridge Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

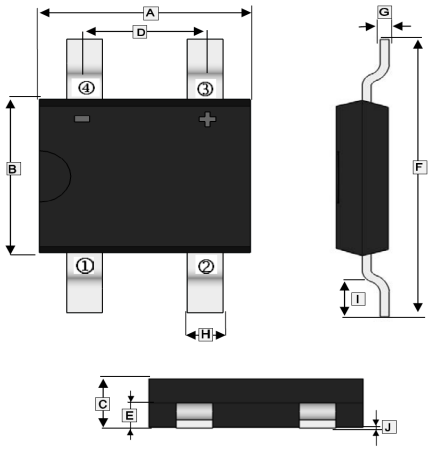
FEATURES

- Ultra Low leakage current IR＜2μA，T_A=125℃
- No solder used，Real fully in line with lead free
- Package Thickness is 1.2mm
- High ESD >12KV（HBM MODEL）
- Plastic material has U/L flammability classification 94V-0
- High temperature soldering guaranteed:
  260°C/10s（Reflow）
  350°C/3s（Manual welding）

MECHANICAL DATA

- Small signal rectifier devices.

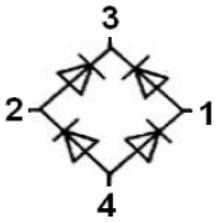
TMB



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.5	4.7	F	6.6	7.0
B	3.6	3.8	G	0.2 TYP.	
C	1.2 TYP.		H	0.6	0.8
D	2.6	2.8	I	0.9	1.1
E	0.45	0.65	J	0.05	0.15

PACKAGE INFORMATION

Package	MPQ	Leader Size
TMB	5K	13 inch



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Rating	Unit
Maximum Recurrent Reverse Voltage		V_{RRM}	600	V
Maximum RMS Voltage		V_{RMS}	420	V
Maximum DC Blocking Voltage		V_{DC}	600	V
Maximum Average Forward Rectified Current @T_A=25℃		$I_{F(AV)}$	0.5	A
Max continuous Forward Rectified Current @T_A=25℃		$I_{MAX.}$	2	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	12	A
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A=25℃	I_R	0.5	μA
	T_A=125℃		2	
Maximum Instantaneous Forward Voltage @ I_F=0.25A		V_F	1	V
Typical thermal resistance junction to lead		$R_{\theta JL}$	200	℃/ W
Operating & Storage Temperature Range		T_J,T_{STG}	-55~150	℃

CHARACTERISTIC CURVES