

Small Signal Product

Silicon Bridge Rectifiers

FEATURES

- Ultra low leakage current I_R < $2\mu A$, T_A = $125^{\circ} C$
- No solder used, real fully in line with lead free
- Package thickness is 1.2 mm
- High ESD > 12 kV (HBM model)
- Plastic material has U/L flammability classification 94V-0
- High temperature soldering guaranteed: 260°C/10s (Reflow)
- High temperature soldering guaranteed: 350°C/ 3s (Manual welding)







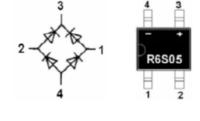


MECHANICAL DATA

- Case: TMB

- Marking Code : R6S05

- Weight: 58mg (approximately)



PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	600	V
RMS Voltage	V_{RMS}	420	V
DC Blocking Voltage	V _{DC}	600	V
Average Forward Rectified Current	I _{F(AV)}	0.5	А
Maximum Continuous Forward Rectified Current	I _{max}	2	А
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave	I _{FSM}	12	А
Thermal Resistance	$R_{\theta JA}$	200	°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to + 150	°C

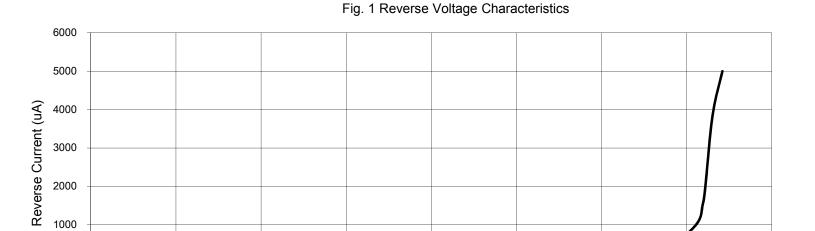
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	Units	
rkeverse Curreni	$V_{RM} = V_{RRM}$, $T_A = 25$ °C	_	0.5		
	V _{RM} = V _{RRM} , T _A = 125 °C	I _R	2.0	μA	
Forward Voltage	I _F = 0.25 A , T _A = 25 °C	V_{F}	1.0	V	



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RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



Reverse Voltage (V)

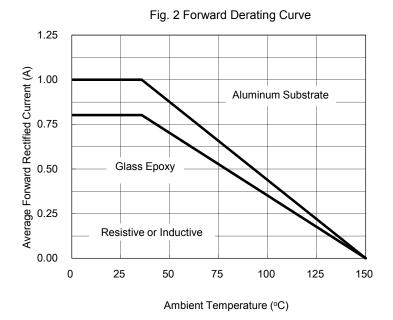


Fig. 3 Typical Reverse Characteristics Instantaneous Reverse Leakage Current (uA) T_A=100°C T_A=25°C Percent of Rated Peak Reverse Voltage (%)

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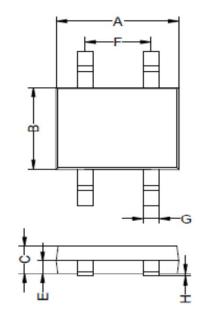
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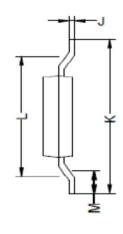
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX (Note 1)	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
TMBR6S05	-xx	R7	G	ТМВ	5K / 13" Reel

Note 1: Part No. Suffix "-xx " would be used for special requirement

EXAMPLE					
PREFERRED PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
TMBR6S05 R7	TMBR6S05		R7		Multiple manufacture source
TMBR6S05 R7G	TMBR6S05		R7	G	Multiple manufacture source Green compound
TMBR6S05-D0 R7G	TMBR6S05	-D0	R7	G	Defined manufacture source Green compound

PACKAGE OUTLINE DIMENSIONS TMB





DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	4.50	4.70	0.177	0.185	
В	3.60	3.80	0.142	0.150	
С	1.20 Typ.		0.049 Typ.		
Е	0.45	0.65	0.018	0.026	
F	2.60	2.80	0.102	0.110	
G	0.60	0.80	0.024	0.031	
Н	0.05	0.15	0.002	0.006	
J	0.20 Typ.		0.008 Typ.		
K	6.60	7.00	0.260	0.276	
L	5.10	5.50	0.201	0.217	
М	0.90	1.10	0.035	0.043	





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