

HB007Q03

Schottky Barrier Diode

30V, 70mA Rectifier

Applications

- High frequency rectification (switching regulators, converters, choppers)

Features

- Low forward voltage ($V_F \text{ max} = 0.55\text{V}$)
- Fast reverse recovery time ($t_{rr} \text{ max} = 10\text{ns}$)
- Low switching noise
- Low leakage current and high reliability due to highly reliable planar structure
- Ultrasmall-sized package permitting SB007-03Q-applied sets to be compact and slim

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

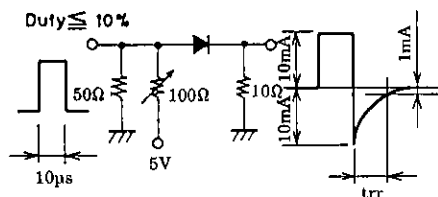
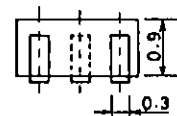
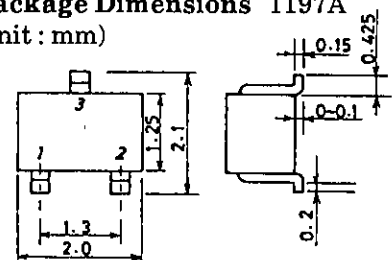
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}	35	V
Average Output Current	I_O	70	mA
Surge Forward Current	I_{FSM} 50Hz sine wave, 1 cycle	2	A
Junction Temperature	T_j	-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

			min	typ	max	unit
Reverse Voltage	V_R	$I_R = 20\mu\text{A}$	30			V
Forward Voltage	V_F	$I_F = 70\text{mA}$			0.55	V
Reverse Current	I_R	$V_R = 15\text{V}$			5	μA
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		3.0		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10\text{mA}$			10	ns

See specified Test Circuit.

Marking : G

 t_{rr} Test Circuit**Package Dimensions 1197A**
(unit : mm)

1 : Anode
2 : No Contact
3 : Cathode

