



SB07W03V

30V, 700mA Rectifier

Applications

- Universal-use rectifier.
- 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.

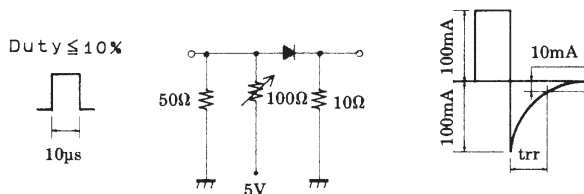
Absolute Maximum Ratings at $T_a=25^\circ\text{C}$ (Value per element)

			unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Nonrepetitive Peak Reverse	V_{RSM}	35	V
Surge Voltage			
Average Output Current	I_o	700	mA
Surge Forward Current	I_{FSM}	5	A
		50Hz sine wave, 1 cycle	
Junction Temperature	T_j	-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

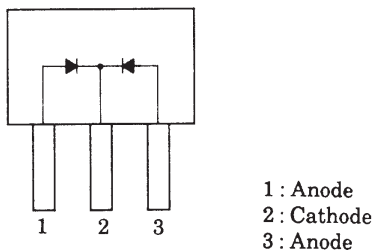
Electrical Characteristics at $T_a=25^\circ\text{C}$ (Value per element)

			min	typ	max	unit
Reverse Voltage	V_R	$I_R=300\mu\text{A}$	30			V
Forward Voltage	V_F	$I_F=700\text{mA}$			0.55	V
Reverse Current	I_R	$V_R=15\text{V}$			50	μA
Interterminal Capacitance	c	$V_R=10\text{V}, f=1\text{MHz}$		28		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100\text{mA}$, See specified Test Circuit.			10	ns
Thermal Resistance	R_{thj-a}			120		$^\circ\text{C/W}$

t_{rr} Test Circuit

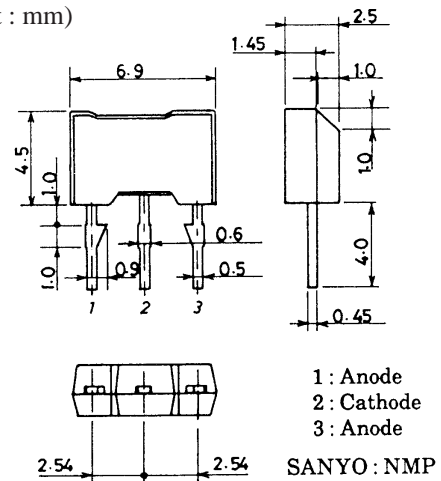


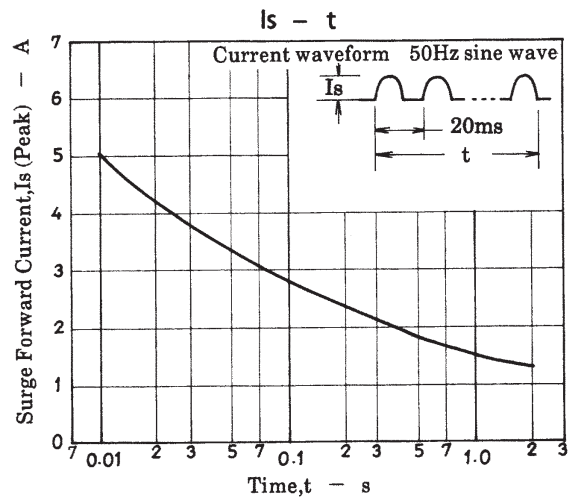
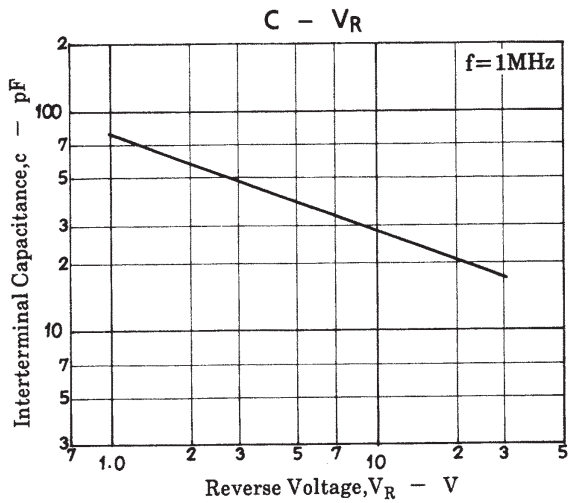
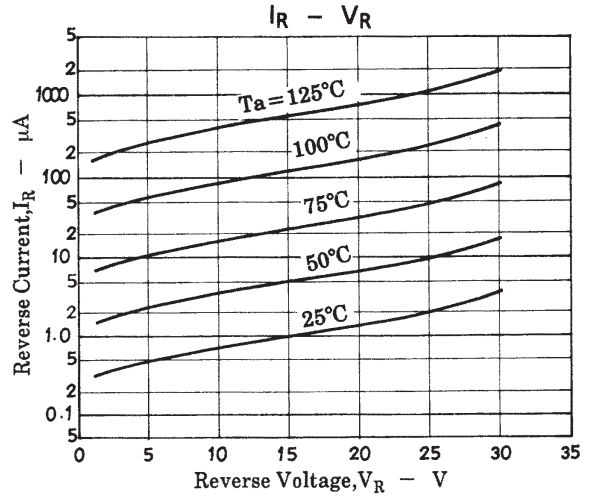
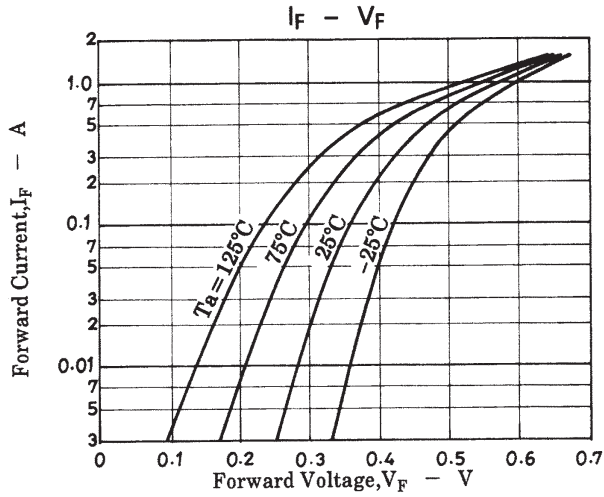
Electrical Connection



Package Dimensions 1238A

(unit : mm)





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