

SB05-03C

30V, 500mA Rectifier

Applications

- Universal-use rectifier.
- High frequency rectification (switching regulators, converters, choppers).

Features

- Low forward voltage (VF max=0.55V).
- Fast reverse recovery time (trr max=10ns).
- Low switching noise
- Low leakage current and high reliability due to highly reliable planar structure.
- Small-sized package, permitting applied sets to be compact and slim.

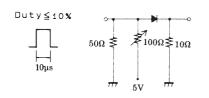
Absolute Maximum Ratings at Ta=25°C unit Repetitive Peak Reverse Voltage 30 V_{RRM} V V Nonrepetitive Peak Reverse **VRSM** 35 Surge Voltage Average Output Current 500 Io mA Surge Forward Current 50Hz sine wave, 1 cycle 5 Α **IFSM** °C Junction Temperature Τj -55 to +125-55 to +125°C Storage Temperature Tstg Electrical Characteristics at Ta=25°C min max typ

				- J I		
Reverse Voltage	v_R	$I_R=150\mu A$	30			V
Forward Voltage	v_F	$I_F=500mA$			0.55	V
Reverse Current	$I_{\mathbf{R}}$	$V_R=15V$			30	μΑ
Interterminal Capacitance	C	$V_R=10V$, $f=1MHz$		16		pF
Reverse Recovery Time	trr	$I_F=I_R=100$ mA,			10	ns
		See specified Test Circuit.				
Thermal Resistance	Rthi-a			560		°C/W

Thermal Resistance Rthj-a 560 °C/V

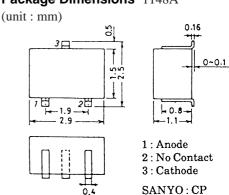
Marking: Q

trr Test Circuit

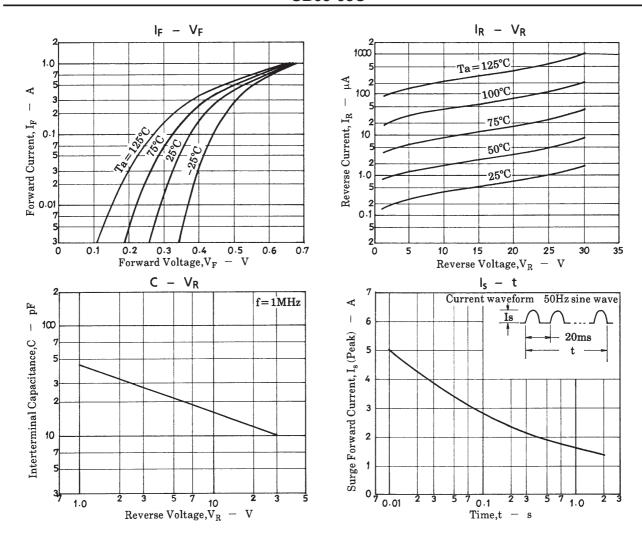




Package Dimensions 1148A



unit



- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property lose.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of June, 1997. Specifications and information herein are subject to change without notice.