

No.3613A

Schottky Barrier Diode (Twin Type · Cathode Common)

50V, 500mA Rectifier

Applications

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

Features

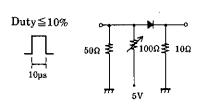
- · Low forward voltage ($V_F \max = 0.55V$)
- · Fast reverse recovery time (trr max = 10ns)
- · Low switching noise
- · Low leakage current and high reliability due to highly reliable planar structure

Absolute Maximum Ratings at Ta = 25°C (Value per element)					unit	
Repetitive Peak Reverse Voltage	e V _{RRM}			50	V	
Non-repetitive Peak Reverse	V_{RSM}			55	V	
Surge Voltage						
Average Output Current	Io			500	mA	
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle		5	Α	
Junction Temperature	$\mathbf{T}\mathbf{j}$		$-55\mathrm{to}$	+125	$^{\circ}\mathrm{C}$	
Storage Temperature	Tstg		-55 to	+125	$^{\circ}\mathrm{C}$	
Electrical Characteristics at Ta = 25°C (Value per element)			min	typ	max	unit
Reverse Voltage	V_R	$I_R = 200 \mu A$	50			V
Forward Voltage	$V_{\mathbf{F}}$	$I_{\rm F} = 500 \rm mA$			0.55	V
Reverse Current	I_R	$\overline{V}_R = 25V$			50	$\mu \mathbf{A}$
Interterminal Capacitance	C	$V_R = 10V, f = 1MHz$		25		pF
Reverse Recovery Time	trr	$I_F = I_R = 100 \text{mA}$			10	ns
		See specified Test Circuit.				
Thermal Resistance	Rthj-a(1)			300		°C/W

Mounted on a 250mm² × 0.8mmt Rthj-a (2) ceramic board

Marking: SE

trr Test Circuit

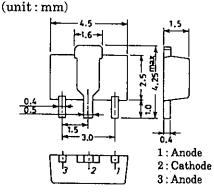




Package Dimensions 1239A

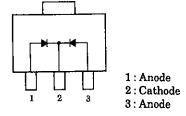
110

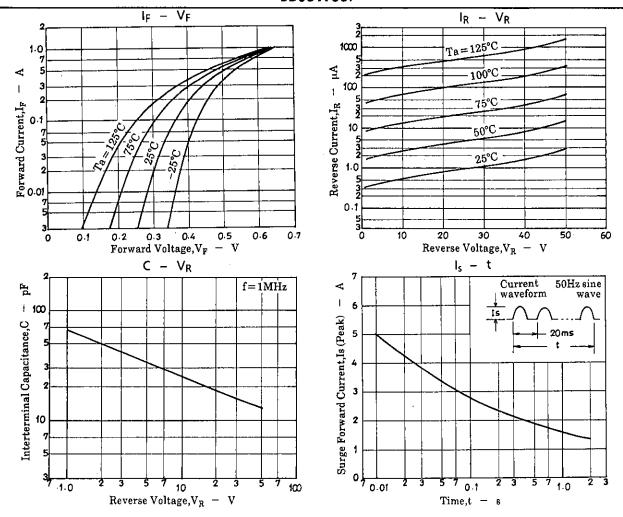
°C/W



SANYO: PCP

Electrode Connection





- 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 loss.
- 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 January, 1997. Specifications and information herein are subject to change without notice.