Ordering number: EN3614A

Schottky Barrier Diode

SB05-03C

unit





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

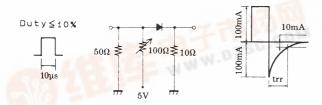
Repetitive Peak Reverse Voltage	V _{RRM}		30	V
Nonrepetitive Peak Reverse	VRSM		35	V
Surge Voltage				
Average Output Current	Io		500	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	A
Junction Temperature	Tj		-55 to $+125$	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta=25°C

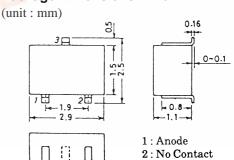
iectifical characteristics at 1a-23 C			111111	typ max	uIIIt
Reverse Voltage	v_R	I _R =150μA	30		V
Forward Voltage	V_{F}	I _F =500mA		0.55	V
Reverse Current	$I_{\mathbf{R}}$	$V_R=15V$		30	μΑ
Interterminal Capacitance	C	$V_R=10V$, $f=1MHz$		16	pF
Reverse Recovery Time	trr	$I_F=I_R=100\text{mA}$,		10	ns
		See specified Test Circuit.			
Thermal Resistance	Rthj-a		5	660	°C/W

Marking: Q

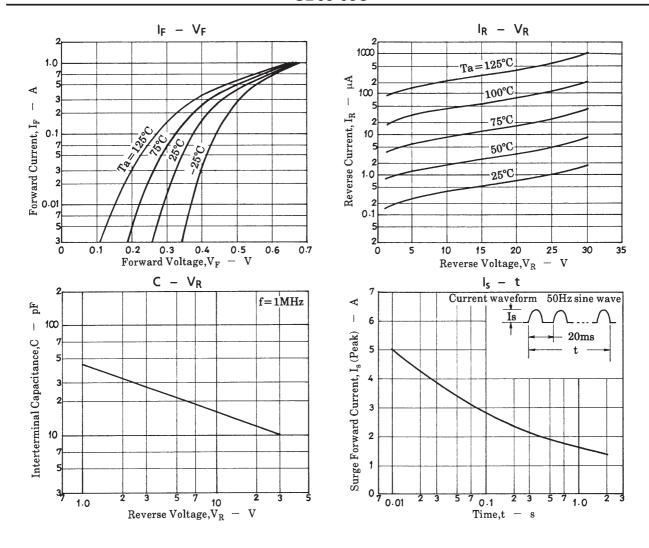
trr Test Circuit



Package Dimensions 1148A



3 : Cathode SANYO : CP



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