

SANYO Semiconductors DATA SHEET

SBE817 — Low IR Schottky Barrier Diode 15V, 2.0A Rectifier

Applications

· High frequency rectification (switching regulators, converters, choppers).

Features

- · Composite type with 2 low IR SBDs in one package, facilitating high density mounting.
- · Small switching noise.
- Low forward voltage (IF=2.0A, VF max=0.57V).
- Low reverse current ($V_R=7.5V$, I_R max= $6\mu A$).
- · Ultrasmall package permitting applied sets to be small and slim (Mounting height 0.75mm).

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		17	V
Average Output Current	Ю		2.0	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Marking: SA

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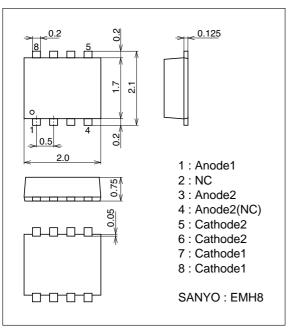
^{*:} The absolute maximum ratings and electrical characteristics refer to those between Terminal 1 and Terminal 7 (or 8), and between Terminal 3 and Terminal 5 (or 6).

Electrical Characteristics at Ta=25°C

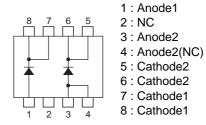
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O I III
Reverse Voltage	VR	IR=0.3mA	15			V
Forward Voltage	V _F 1	IF=1.0A		0.45	0.5	V
	V _F 2	IF=2.0A		0.52	0.57	V
Reverse Current	IR	V _R =7.5V			6	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		35		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	When mounted on ceramic substrate (900mm²X0.8mm)		65		°C/W

Package Dimensions

unit : mm (typ) 7045-004



Electrical Connection

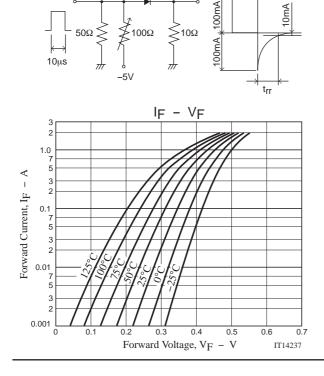


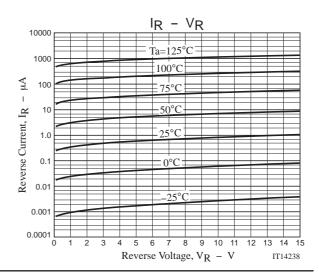
Top view

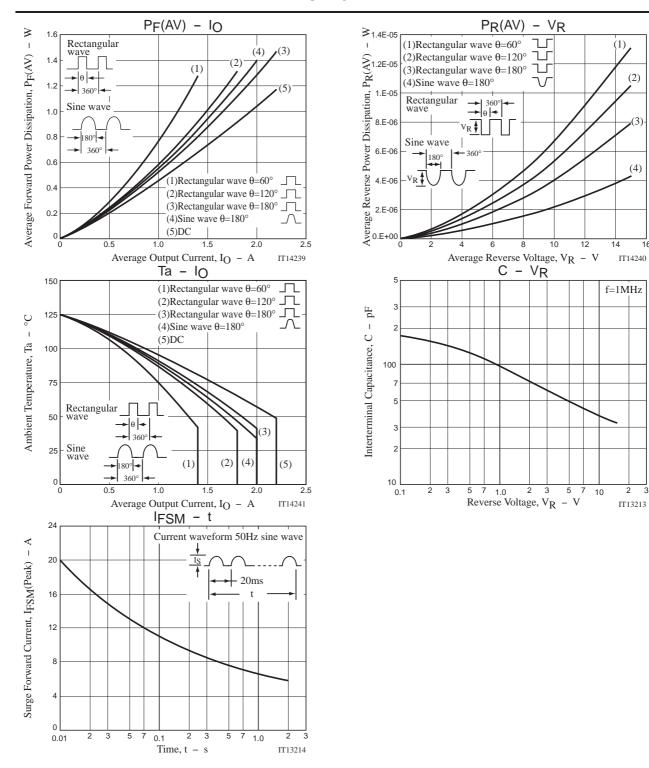
*: Terminal 4 is used for the purposes such as test. Although it is connected to Anode 2, please handle it as NC Terminal

trr Test Circuit

Duty≤10%







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