

**EC2D02B****30V, 100mA Rectifier****Applications**

- High frequency rectification (switching regulators, converters and choppers).

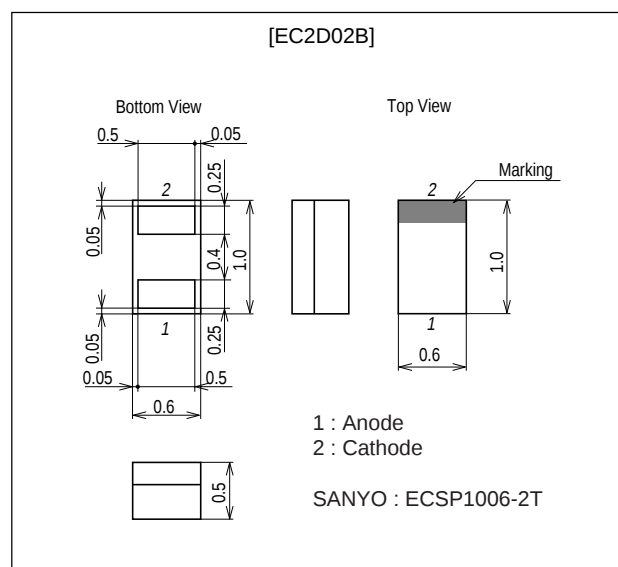
Features

- Low Switching noise.
- Low forward voltage ($I_F=50\text{mA}$, $V_F \text{ max}=0.4\text{V}$) ($I_F=100\text{mA}$, $V_F \text{ max}=0.48\text{V}$).
- Ultrasmall-size package (1006), thin (0.5mm) leadless package.

Package Dimensions

unit : mm

1325

**Specifications****Absolute Maximum Ratings** at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		35	V
Average Output Current	I_O		100	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	2	A
Junction Temperature	T_j		-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=200\mu\text{A}$	30			V
Forward Voltage	V_{F1}	$I_F=50\text{mA}$			0.4	V
	V_{F2}	$I_F=100\text{mA}$			0.48	V
Reverse Current	I_R	$V_R=15\text{V}$			100	μA
Interterminal Capacitance	C	$V_R=10\text{V}$, $f=1\text{MHz}$		3		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}$, See specified Test Circuit.			10	ns

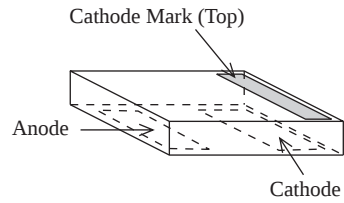
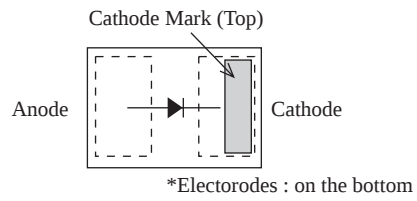
Marking : DC

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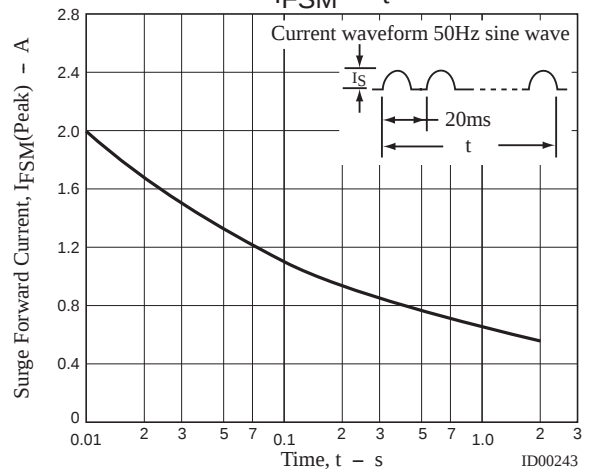
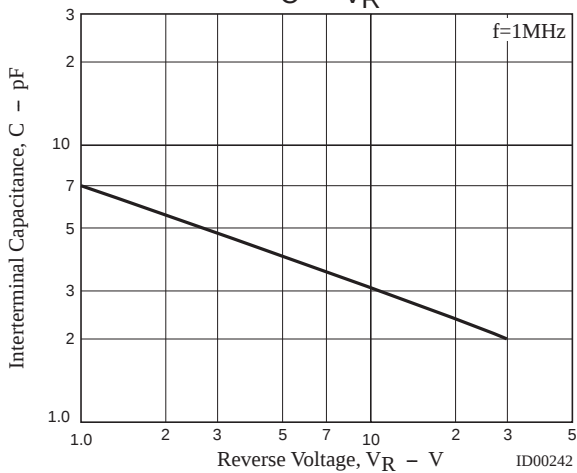
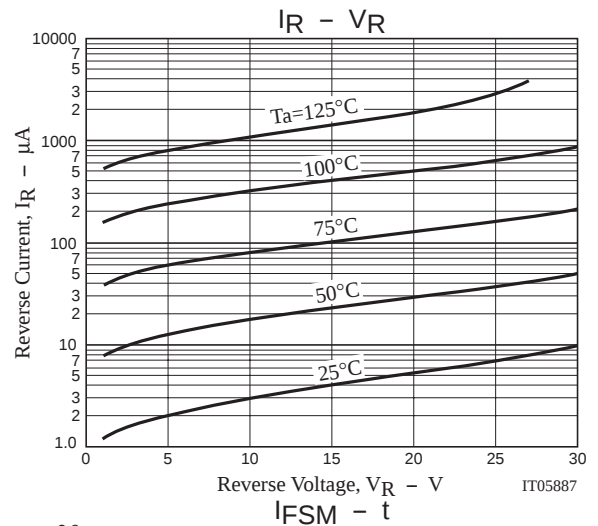
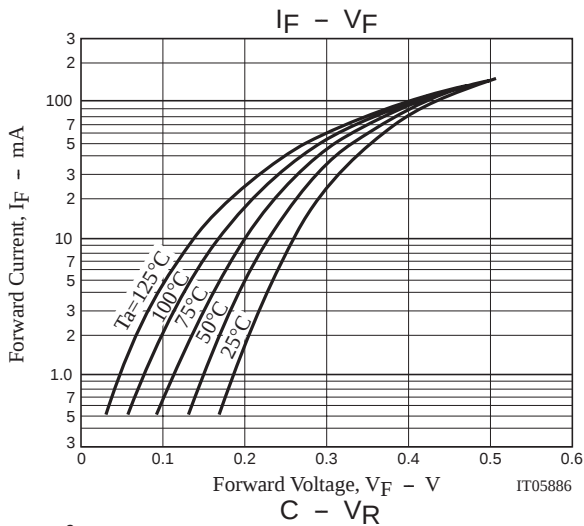
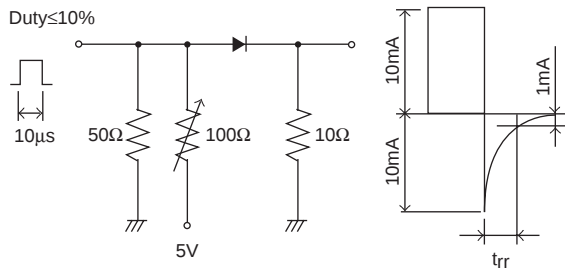
Type No. Indication(Top view)



Electrical Connection(Top view)



t_{rr} Test Circuit



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