



SANYO Semiconductors

DATA SHEET

DCH10

Silicon Epitaxial Planar Type (Twin Type, Anode Common)

High-Speed Rectifiers, High-Frequency Rectifiers

Features

- Ideal for use in hybrid ICs because of small-sized package.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		200	V
Reverse Voltage	V_R		200	V
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	5	A
Average Output Current	I_O		1.0	A
		Total value	1.5	A
Peak Forward Current	I_{FM}		2.0	A
		Total value	3.0	A
Junction Temperature	T_j		150	°C
Storage Temperature	T_{stg}		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=10\mu A$	200			V
Forward Voltage	V_F	$I_F=1A$		1.0	1.3	V
Reverse Current	I_R	$V_R=200V$			10	μA
Interterminal Capacitance	C	$V_R=30V, f=1MHz$		7.0		pF
Reverse Recovery Time	t_{rr}	$I_F=1A, -dI_F/dt=10A/\mu s$		90	300	ns
Thermal Resistance	$R_{th(j-a)1}$			300		°C / W
	$R_{th(j-a)2}$	Mounted on ceramic board (250mm ² ×0.8mm)		100		°C / W

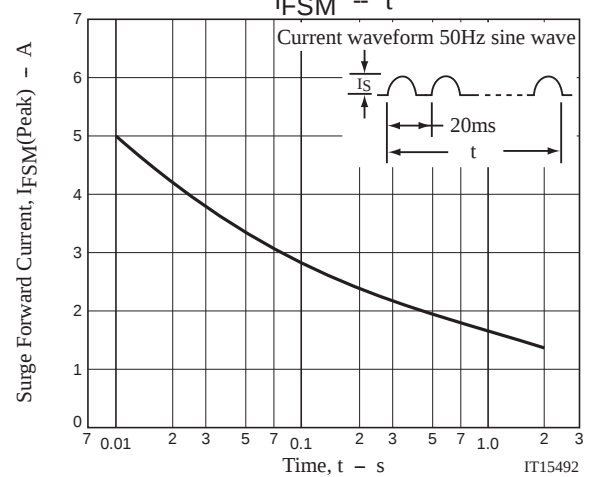
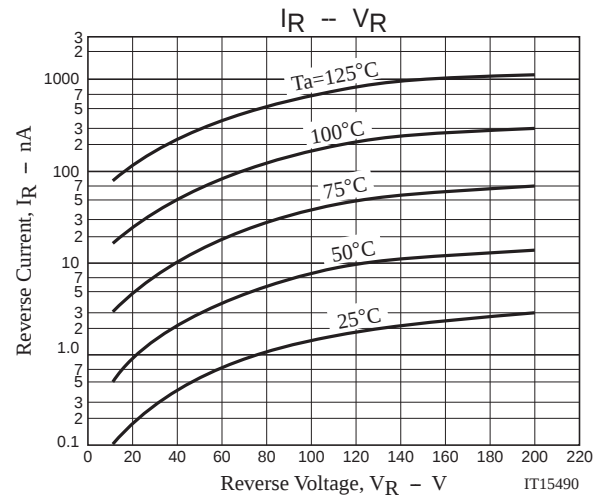
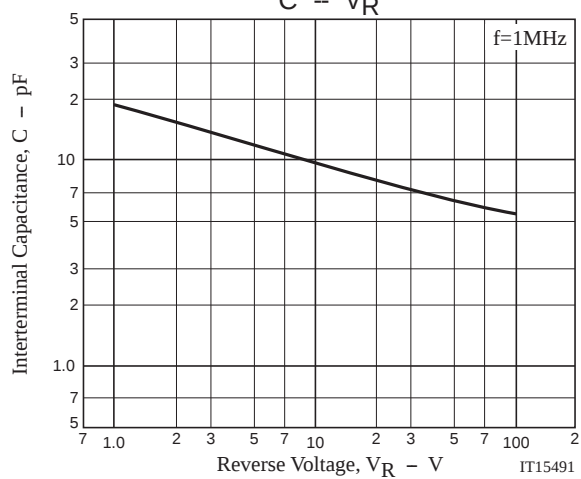
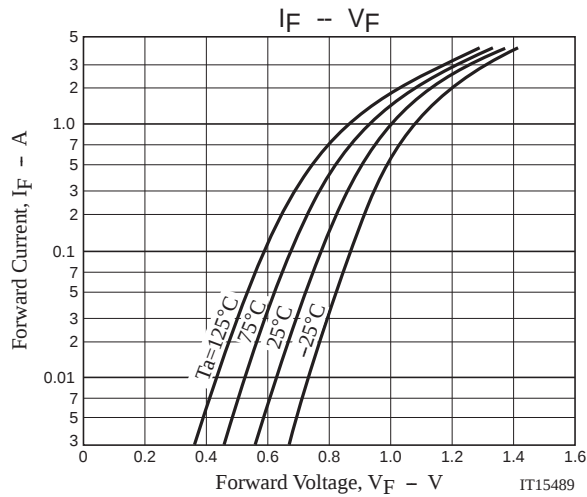
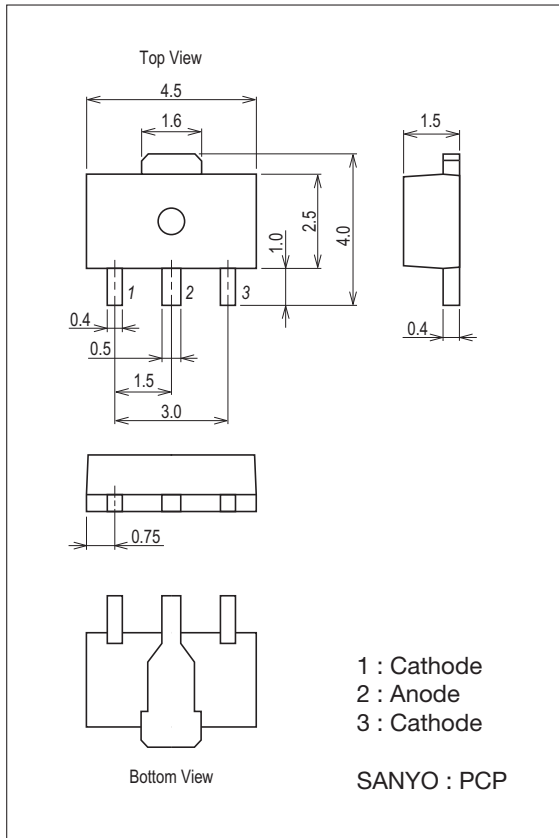
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Package Dimensions

unit : mm (typ)

7007B-005



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