

SANYO

No. 2373

DFD05T

Diffused Junction Type Silicon Diode

0.5A Power Rectifier

Features

- High-speed switching use
- Plastic molded structure
- Reverse recovery time $t_{rr}=0.15\mu s$ max (B,C,E,G)
 $t_{rr}=0.3\mu s$ max (J,L,N,R,T)
- Peak reverse voltage $V_{RM}=-100$ to $-1700V$
- Average rectified current $I_o=0.5A$

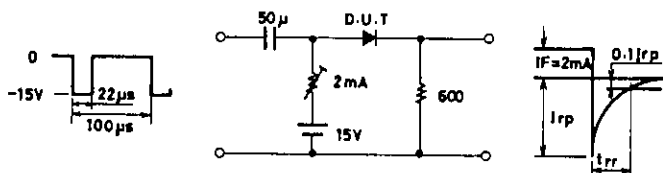
Absolute Maximum Ratings at $T_a=25^\circ C$

			DFD05TB	DFD05TC	DFD05TE	DFD05TG	unit
Peak Reverse Voltage	V_{RM}		-100	-200	-400	-600	V
Average Rectified Current	I_o	$T_a=50^\circ C$	→	→	→	0.5	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	→	→	30	A
Junction Temperature	T_j		→	→	→	150	$^\circ C$
Storage Temperature	T_{stg}		→	→	→	-40to+150	$^\circ C$

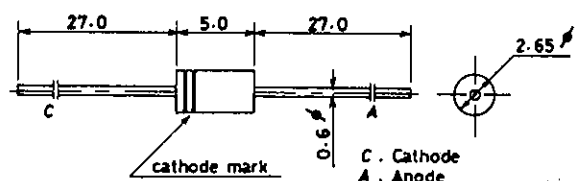
			DFD05TJ	DFD05TL	DFD05TN	DFD05TR	DFD05TT	unit
Peak Reverse Voltage	V_{RM}		-800	-1000	-1200	-1500	-1700	V
Average Rectified Current	I_o	$T_a=50^\circ C$	→	→	→	→	0.5	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	→	→	→	20	A
Junction Temperature	T_j		→	→	→	→	125	$^\circ C$
Storage Temperature	T_{stg}		→	→	→	→	-40to+150	$^\circ C$

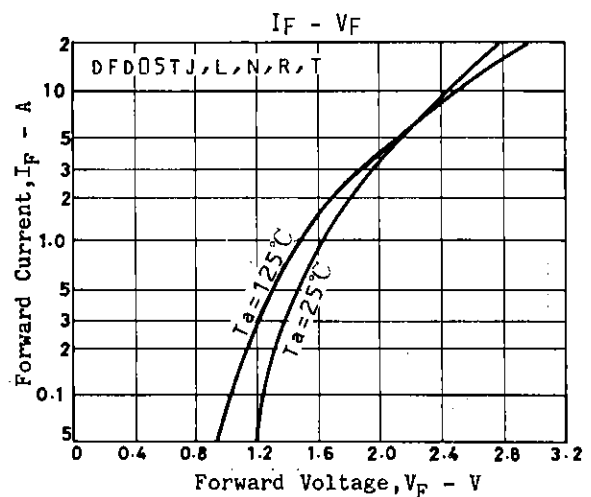
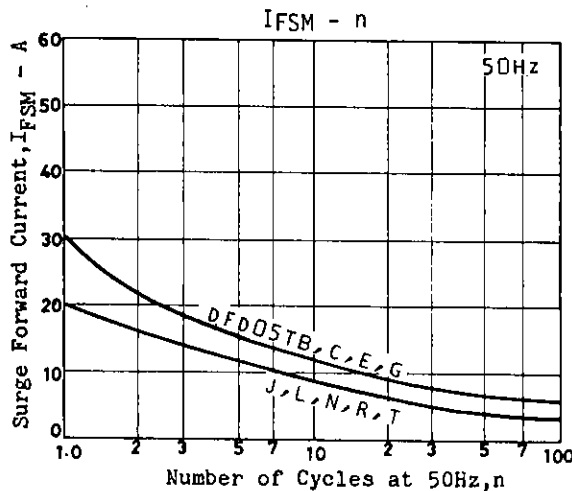
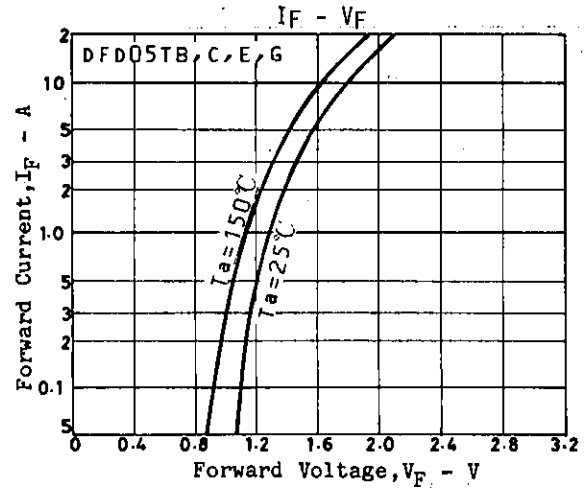
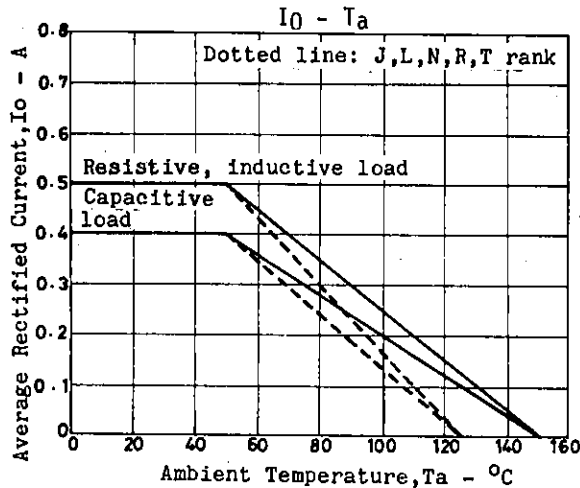
Electrical Characteristics at $T_a=25^\circ C$

			min	typ	max	unit
Forward Voltage	V_F	$I_F=0.5A$ (B,C,E,G)			1.2	V
		$I_F=0.5A$ (J,L,N,R,T)			1.5	V
Reverse Current	I_R	V_R : At each V_{RM}			-10	μA
Reverse Recovery Time	t_{rr}	$I_F=2mA, V_R=-15V$ (B,C,E,G)			0.15	μs
		$I_F=2mA, V_R=-15V$ (J,L,N,R,T)			0.3	μs



Reverse Recovery Time Test Circuit

Unit (resistance: Ω , capacitance: F)**Package Dimensions**
(unit: mm) 1174



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