

SANYO	No.2405	DFD30T
		Diffused Junction Type Silicon Diode 3.0A Power Rectifier

Features

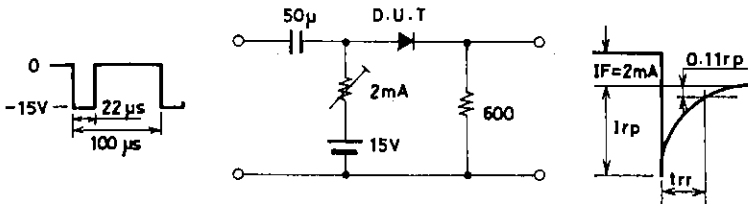
- High-speed switching use
- Reverse recovery time $t_{rr} = 0.15\mu s$ max (B,C,E,G)
 $t_{rr} = 0.3\mu s$ max (J,L)
- Peak reverse voltage $V_{RM} = -100$ to $-1000V$
- Average rectified current $I_O = 3.0A$

Absolute Maximum Ratings at $T_a = 25^\circ C$			DFD30TB	DFD30TC	DFD30TE	DFD30TG	unit
Peak Reverse Voltage	V_{RM}		-100	-200	-400	-600	V
Average Rectified Current	I_O	$T_a = 25^\circ C$	→	→	→	3.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	→	→	140	A
Junction Temperature	T_j		→	→	→	150	$^\circ C$
Storage Temperature	T_{stg}		→	→	→	-40 to +150	$^\circ C$

			DFD30TJ	DFD30TL	unit
Peak Reverse Voltage	V_{RM}		-800	-1000	V
Average Rectified Current	I_O	$T_a = 25^\circ C$	→	3.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	80	A
Junction Temperature	T_j		→	125	$^\circ C$
Storage Temperature	T_{stg}		→	-40 to +150	$^\circ C$

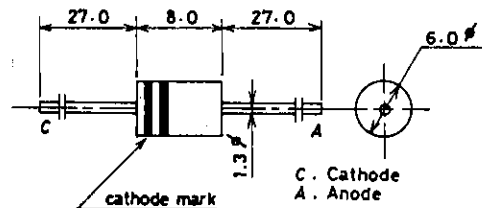
Electrical Characteristics at $T_a = 25^\circ C$				min	typ	max	unit
Forward Voltage	V_F	$I_F = 3.0A$ (B,C,E,G)				1.2	V
		$I_F = 3.0A$ (J,L)				1.5	V
Reverse Current	I_R	V_R : At each V_{RM}				-20	μA
Reverse Recovery Time	t_{rr}	$I_F = 2mA, V_R = -15V$ (B,C,E,G)				0.15	μs
		$I_F = 2mA, V_R = -15V$ (J,L)				0.3	μs

Reverse Recovery Time Test Circuit

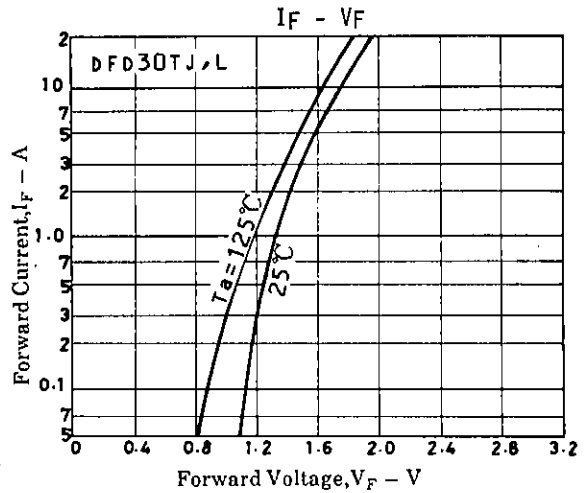
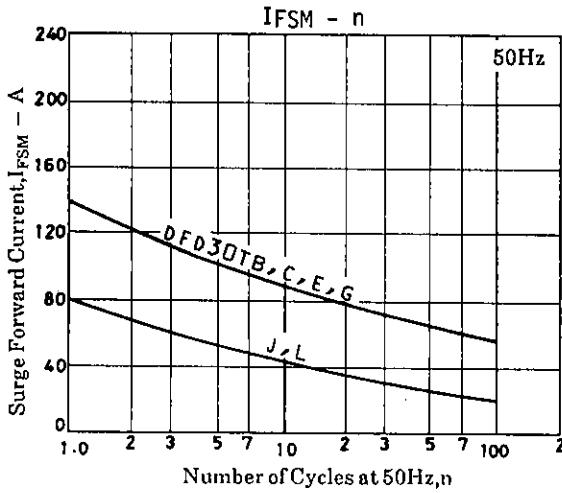
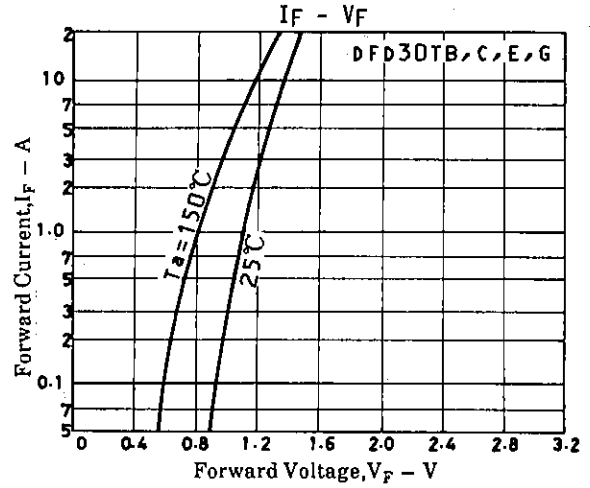
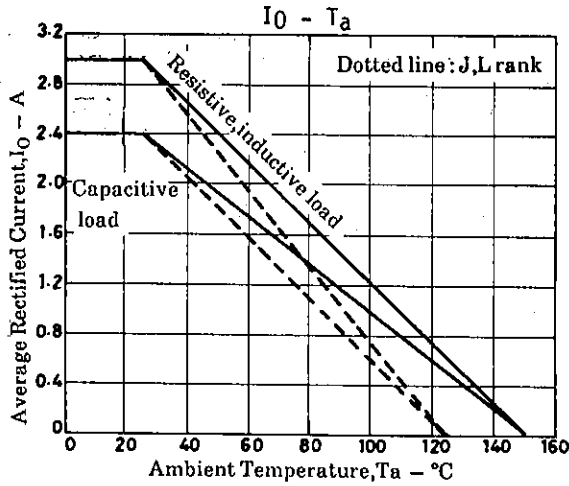


Unit (resistance: Ω , capacitance: F)

Package Dimensions
(unit: mm) 1177



DFD30T



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