Ordering numberEN2375

SANYO No.2375

DFC15T

Diffused Junction Type Silicon Diode

1.5A Power Rectifier

Features

- High-speed switching use
- Plastic molded structure
- Reverse recovery time trr = 0.15μs max (B,C,E,G)
  trr = 0.3μs max (J,L,N,R)
- Peak reverse voltage V_{RM} = −100 to −1500V
- Average rectified current I_O = 1.5A

Absolute Maximum Ratings at Ta = 25°C

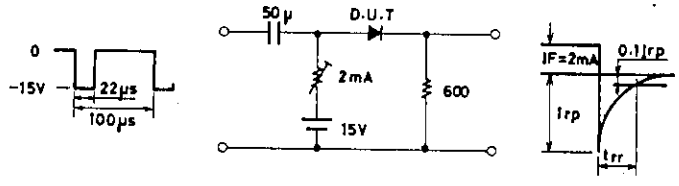
			DFC15TB	DFC15TC	DFC15TE	DFC15TG	unit
Peak Reverse Voltage	V_{RM}		−100	−200	−400	−600	V
Average Rectified Current	I_O	Ta = 35°C	→	→	→	1.5	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	→	→	80	A
Junction Temperature	Tj		→	→	→	150	°C
Storage Temperature	Tstg		→	→		−40 to +150	°C

			DFC15TJ	DFC15TL	DFC15TN	DFC15TR	unit
Peak Reverse Voltage	V_{RM}		−800	−1000	−1200	−1500	V
Average Rectified Current	I_O	Ta = 25°C	→	→	→	1.5	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	→	→	45	A
Junction Temperature	Tj		→	→	→	125	°C
Storage Temperature	Tstg		→	→		−40 to +150	°C

Electrical Characteristics at Ta = 25°C

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

Reverse Recovery Time Test Circuit



Unit (resistance: Ω, capacitance: F)

Package Dimensions

(unit: mm) 1173