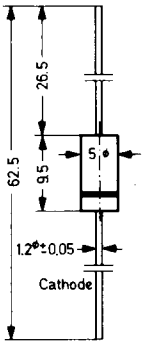
ITT5400 . . . ITT5408

Silicon Rectifiers

Nominal forward current 3 A
Repetitive peak reverse voltage 100 ... 1300 V



These rectifiers are delivered taped.
Details see "Taping".

Plastic package ≈ JEDEC DO-13

Weight approx. 1 g
Dimensions in mm

Absolute Maximum Ratings

		Symbol	Value	Unit
Repetitive Peak Reverse Voltage	**ITT5400**	V_{RRM}	100	V
	ITT5401	V_{RRM}	200	V
	ITT5402	V_{RRM}	300	V
	ITT5403	V_{RRM}	400	V
	ITT5404	V_{RRM}	500	V
	ITT5405	V_{RRM}	600	V
	ITT5406	V_{RRM}	800	V
	ITT5407	V_{RRM}	1000	V
	ITT5408	V_{RRM}	1300	V
Nominal Current at Halfe Wave Rectification with Resistive Load at T_{amb} = 50 °C		I_{FAV}	3 [1]	A
Repetitive Peak Forward Current at Θ <40 °, f >15 Hz, T_{amb} = 25 °C		I_{FRM}	20 [1]	A
Surge Forward Current Half Cycle 50 Hz, starting from T_j = 25 °C		I_{FSM}	100	A
Junction Temperature		T_j	150	°C
Ambient Operating Temperature Range		T_{amb}	−40 to +150	°C
Storage Temperature Range		T_S	−40 to +150	°C

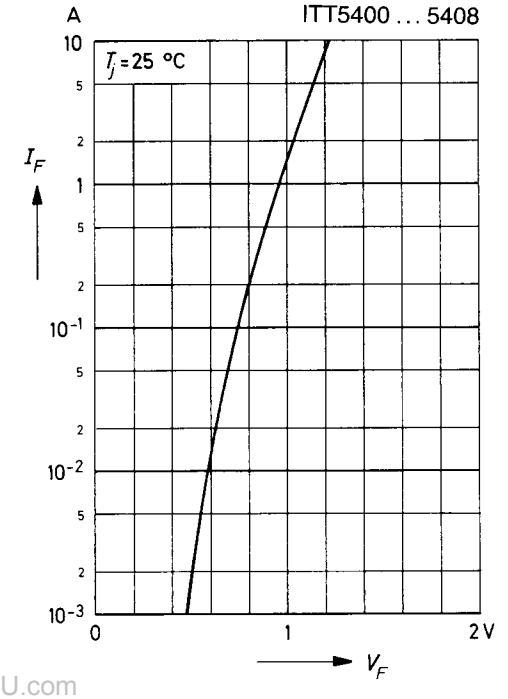
[1] Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

Characteristics at T_{amb} = 25 °C

	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at I_F = 3 A	V_F	–	–	1.1	V
Leakage Current at V_{RRM}	I_R	–	–	20	μA
Thermal Resistance Junction to Ambient Air	R_{thA}	–	–	30 [1]	K/W

[1] Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

Forward characteristic



Admissible rectified current versus ambient temperature

Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.