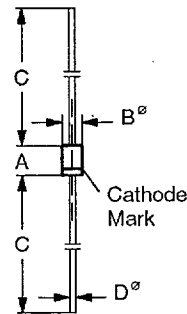


1N4001S...1N4007S, EM513S

Silicon Rectifiers

Nominal current 1 A
 Repetitive peak reverse voltage 100...1600 V



Dim.	Millimeters	
	Min.	Max.
A	4.07	5.20
B	2.04	2.71
C	27.94	
D	0.71	0.86

These rectifiers are delivered taped.

Plastic case DO-41

Weight approximately 0.3 g
 Dimensions in mm

Absolute Maximum Ratings

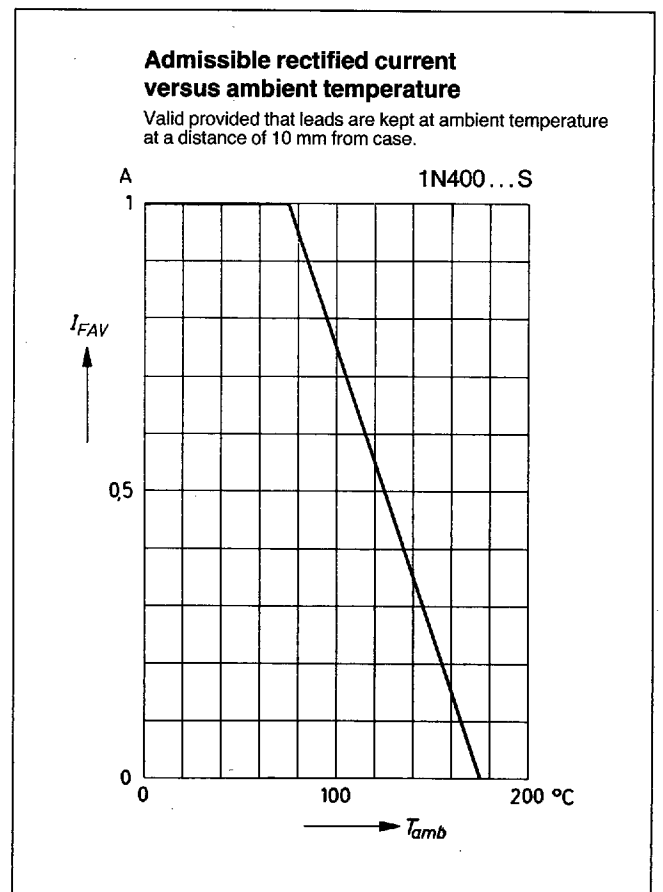
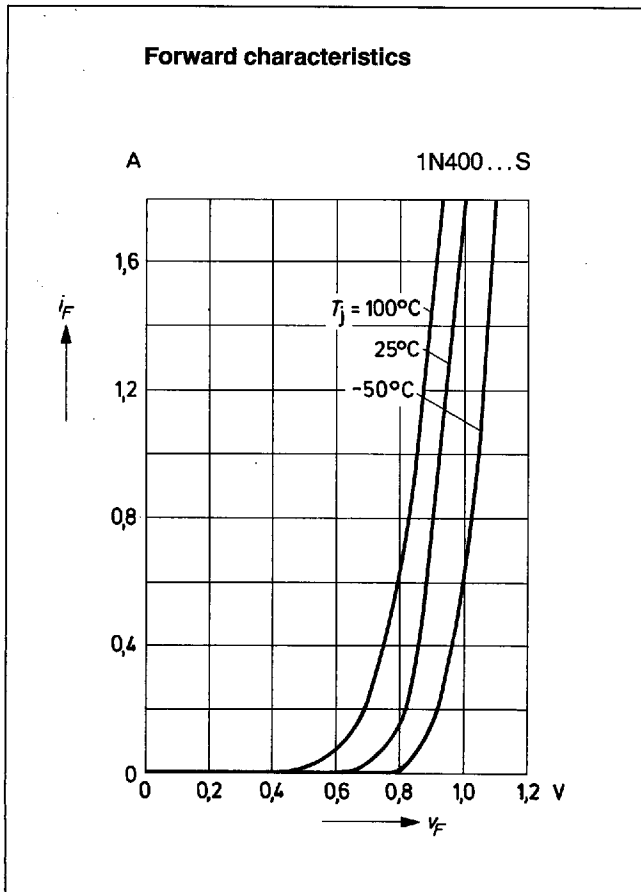
	Symbol	Value	Unit
Repetitive Peak Reverse Voltage and Surge Peak Reverse Voltage	1N4001S	V_{RRM} 50	V
	1N4002S	V_{RRM} 100	V
	1N4003S	V_{RRM} 200	V
	1N4004S	V_{RRM} 400	V
	1N4005S	V_{RRM} 600	V
	1N4006S	V_{RRM} 800	V
	1N4007S	V_{RRM} 1000	V
EM513S	V_{RRM} 1600	V	
Nominal Current at Half Wave Rectification with Resistive Load at $T_{amb} = -65$ to $+75$ °C	I_{FAV}	1 ¹⁾	A
Surge Forward Current, Half Cycle 50 Hz, starting from $T_j = 25$ °C	I_{FSM}	30	A
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_s	-65 to +125	°C

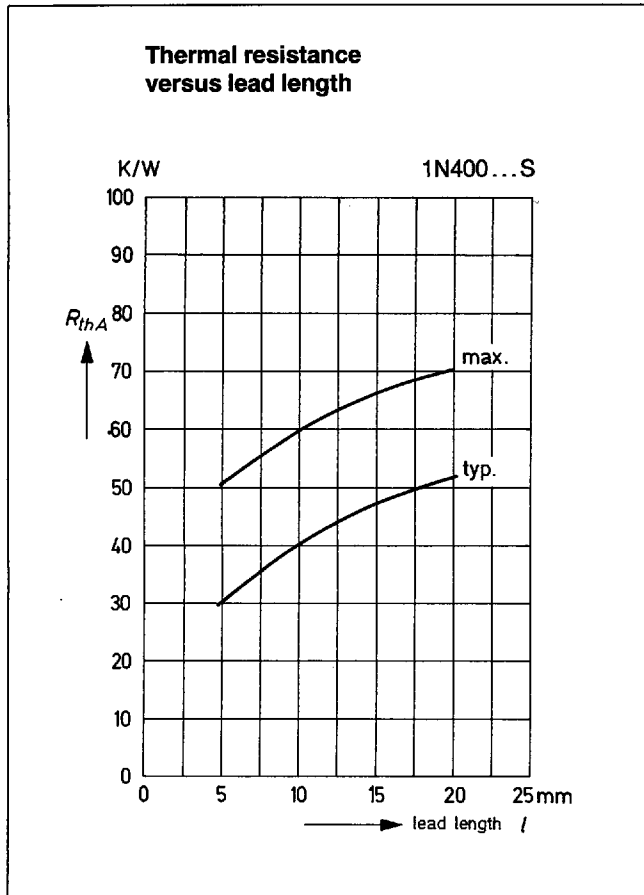
¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

Characteristics

	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 1 \text{ A}$, $T_j = 25 \text{ }^\circ\text{C}$	V_F	–	–	1.1	V
Leakage Current at V_{RRM} $T_j = 25 \text{ }^\circ\text{C}$ $T_j = 100 \text{ }^\circ\text{C}$	I_R	–	–	10	μA
	I_R	–	–	50	μA
Thermal Resistance Junction to Ambient Air	R_{thA}	–	–	60 ¹⁾	K/W

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





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