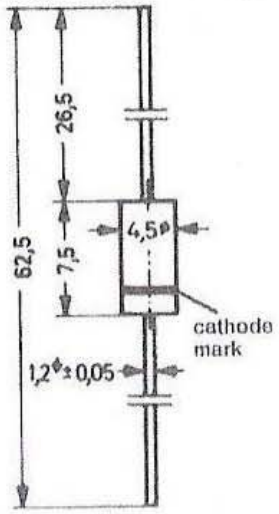
Silicon Rectifiers

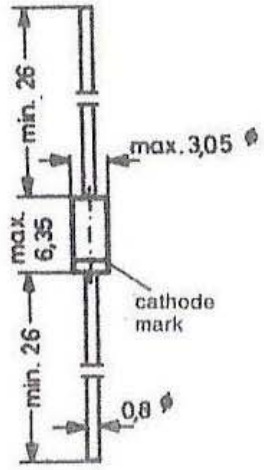
Nominal current 1 A

Repetitive peak reverse voltage 450 – 800 V

Plastic case G
Weight approx. 0.6 g



Plastic case S
Weight approx. 0.4 g



Maximum Ratings

Type	Repetitive peak reverse voltage V_{RRM} V	Surge peak reserve voltage V_{RSM}
BY 127	800	1250
BY 226	450	650
BY 227	800	1250
BY 228	1500	1800
BY 448	1500	1800

		Case G		Case S
Nominal current with repetitive load				
T_{amb} = –65 . . .+75°C	I_{FAV}	1.6[1]	A	3.0 A
T_{amb} = 100°C	I_{FAV}	0.75[1]	A	
Respective peak forward current	I_{FRM}	10[1]	A	
Surge forward current half cycle 50 Hz from T_j = 25°C	I_{FSM}	50	A	
Junction temperature	T_j	175	°C	
Storage temperature range	T_S	–65 . . .+175°C		

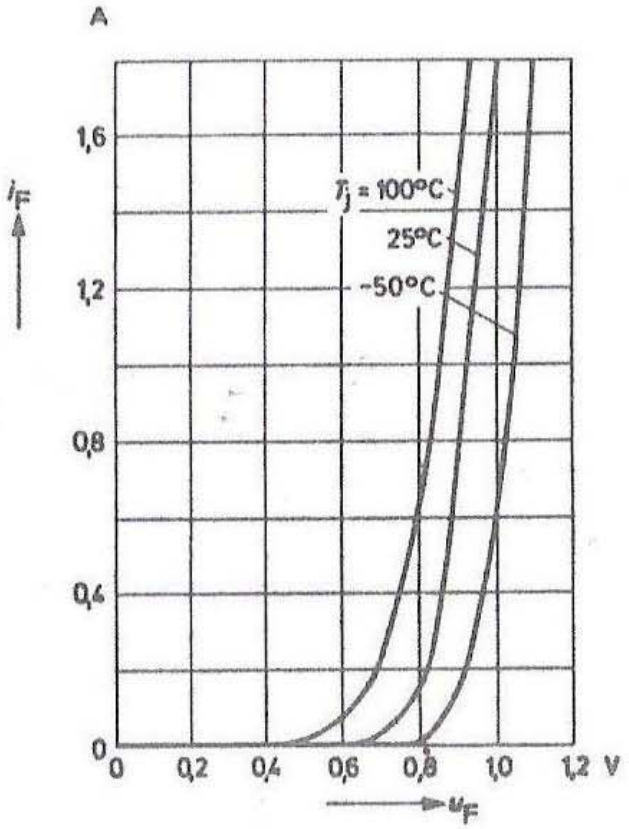
[1] Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

Characteristics

Forward voltage $I_F = 2$ A, $T_j = 25°C$	V_F	<1.3	V
$= 5$ A		<1.5	V
Leakage current V_{RRM}, $T_j = 25°C$	I_R	<10	µA
V_{RRM}, $T_j = 100°C$	I_R	<200	µA
Thermal resistance junction to ambient air	R_{thA}	<60[1)]	°C/W

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

Forward characteristics



Admissible rectified current versus ambient temperature