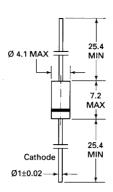
BY296...BY299 FAST SILICON RECTIFIERS

FEATURES

- * Low forward voltage
- * High current capability
- * Low leakage current
- * High surge capability
- * Low cost



VOLTAGE RANCE 100 to 800 Volts CURRENT 2.0 Amperes

Dimensions in mm

Absolute Maximum Ratings (T_a= 25 °C)

	Symbol	Value	Unit
Repetitive Peak Reverse Voltage BY296 BY297 BY298	V _{RRM} V _{RRM}	100 200	V V
BY299	V _{RRM} V _{RRM}	400 800	V
Nominal Current at Halfe Wave Rectificatin with Resistive Load at T _{amb} = 50 °C	I _{FAV}	21)	A
Surge Forward Current, Half Cycle 50Hz, starting from T _j = 25 °C	I _{FSM}	70	А
Repetitive Peak Forward Current, Θ < 40 °, f >15Hz, T _{amb} = 25 °C	I _{FRM}	101)	А
Junction Temperature	T _j	150	°C
Ambient Operating Temperature Range	T _{amb}	-40 + 150	°C
Strage Temperature Range	T _s	-40 + 150	°C



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Characteristics

	Symbol	Min.	Тур.	Max.	Unit
Forward Voltage at I _F = 3 A, T _j = 25 °C	V _F	-	-	1.3	٧
Leakage Current at V_{RRM} , $T_j = 25$ °C	I _R	-	-	10	μА
Forward Recovery Time at I _F = 100 mA	t _{fr}	-	-	1	μs
Reverse Recovery Time from $I_F = 10$ mA through $I_R = 10$ mA to $I_R = 1$ mA	t _{rr}	-	-	0.5	μs
Thermal Resistance Junction to Ambient Air	R _{thA}	-	-	35	K/W

