BY296 . . . BY299

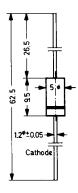
Fast Silicon Rectifiers

Nominal current

2 A

Repetitive peak reverse voltage

100 ... 800 V



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

Plastic case ≈ JEDEC DO-13

Weight approx. 1 g Dimensions in mm

Absolute Maximum Ratings

	Symbol	Value	Unit
Repetitive Peak Reverse Voltage BY296 BY297 BY298 BY299	V _{RRM} V _{RRM} V _{RRM} V _{RRM}	100 200 400 800	V V V
Nominal Current at Halfe Wave Rectification with Resistive Load at $T_{amb} = 50 ^{\circ}\text{C}$	I _{FAV}	2 ¹⁾	A
Surge Forward Current, Half Cycle 50 Hz, starting from $T_j=25^{\circ}\text{C}$	I _{FSM}	70	Α
Repetitive Peak Forward Current at Θ <40 °, f >15 Hz, $T_{amb} = 25$ °C	I _{FRM}	10 ¹⁾	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

Characteristics

	Symbol	Min.	Тур.	Max.	Unit
Forward Voltage at $I_F = 3 \text{ A}$, $T_j = 25 ^{\circ}\text{C}$	V _F	_	_	1.3	V
Leakage Current at V_{RRM} , $T_j = 25$ °C	I _R	_	_	10	μΑ
Forward Recovery Time at $I_F = 100 \text{ mA}$	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

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

