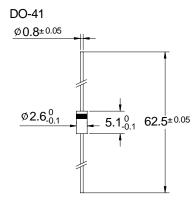
FAST SILICON RECTIFIERS

- Plastic material has UL Classification 94V-0
- Plastic case, DO-41

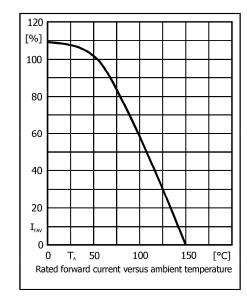


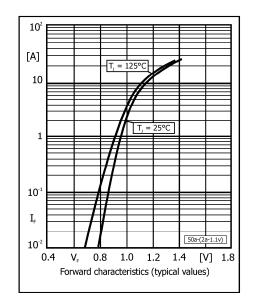
Dimensions in mm

Absolute Maximum Ratings and Characteristics

Parameter	Symbols	D-BYW36	D-BYW38	Units
Repetitive Peak Reverse Voltage	V_{RRM}	600	600	V
Surge Peak Reverse Voltage	V_{RSM}	1000	1000	V
Maximum Average Forward Retified Current, R-load at T _A = 55 °C	I _{FAV}	2 1)		Α
Repetitive Peak Forward Current at f > 15 Hz	I _{FRM}	10 ¹⁾		Α
Peak Forward Surge Current, 50/60 Hz Half sine-wave at T _A = 25 °C	I _{FSM}	40/45		Α
Maximum Forward Voltage at T _j = 25 °C, I _F = 2 A	V_{F}	1.2		V
Maximum Leakage Current $V_R = V_{RRM}$ $T_j = 25$ °C		5		
$V_R = V_{RRM}$ $T_j = 100 ^{\circ}C$	I _R	5	0	μA
Reverse Recovery Time $I_F = 0.5$ A through $I_R = 1$ A to $I_R = 0.25$ A	t _{rr}	200		ns
Rating for Fusing, t < 10 ms at $T_A = 25$ °C	i ² t	4.5		A ² s
Thermal Resistance Junction to Ambient Air	R _{thA}	45 ¹⁾		K/W
Operating Junction Temperature	Tj	- 50 to + 150		°C
Storage Temperature	Ts	- 50 to + 175		°C

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







SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)





