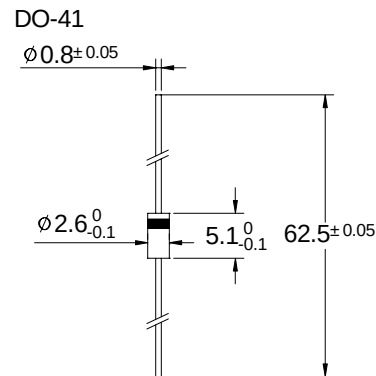


D-BYW36, D-BYW38

FAST SILICON RECTIFIERS

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

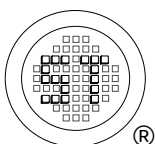
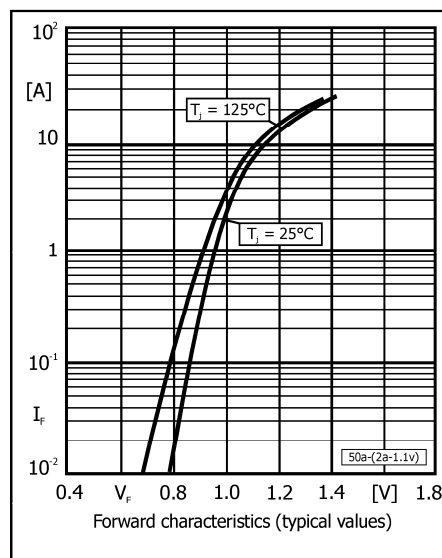
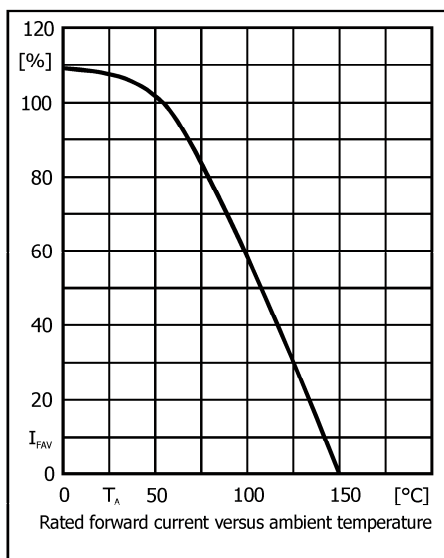


Dimensions in mm

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⁾		A
Repetitive Peak Forward Current at f > 15 Hz	I _{FRM}	10 ¹⁾		A
Peak Forward Surge Current, 50/60 Hz Half sine-wave at T _A = 25 °C	I _{FSM}	40/45		A
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 V _R = V _{RRM} T _j = 100 °C	I _R	5 50		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	T _j	- 50 to + 150		°C
Storage Temperature	T _s	- 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)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 14/02/2006 D