

IXBOD 2 - Fast Break-Over Diodes

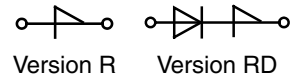
Advantages compared with IXBOD 1:

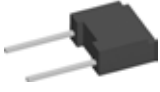

- Temperature coefficient K_T reduced by a factor of 3
 - tighter definition of the break-over voltage V_{BO}
 - $V_{BO}(T_{VJ}) = V_{BO, 25^\circ C} [1 + K_T (T_{VJ} - 25^\circ C)]$
 - more precise and controllable design due to smaller tolerances
- Significant reduction of the switching-on time down to a few nanoseconds

Applications:

- Protection circuits for thyristors in high valuable designs
 - high DC current power transmissions for long distances like offshore windmills or hydroelectric dams
- High Intensity Discharge Lighting (HID)

Fast Break-Over Diodes



Type	V_{BO} $T_{VJ} = 25^\circ C$ $K_T = 0.7 \cdot 10^{-3} K^{-1}$ V	I_{BO} mA	I_H $T_{VJ} = 25^\circ C$ mA	V_H V	I_D $T_{VJ} = 125^\circ C$ $V_D = 0.8 \cdot V_{BO}$ μA	$I_{AVM} \text{ ①}$ $T_{amb} = 50^\circ C$ A	I_{SM} A	dv/dt V/ μs	R_{thJA} K/W	Fig. No.	Package style Outline drawings on pages O-29...O-51
➤ New											
➤ IXBOD 2-01	100	15	20	4-8	200	0.90	250	>1000	60	X201	X201 FP-Case (oil proof) 
➤ IXBOD 2-02	200 $\pm 10\%$										
➤ IXBOD 2-03	300 $\cdot V_{BO}$										
➤ IXBOD 2-04	400										
➤ IXBOD 2-05	500 ± 50										
➤ IXBOD 2-06	600										
➤ IXBOD 2-07	700										
➤ IXBOD 2-08	800										
➤ IXBOD 2-09	900										
➤ IXBOD 2-10	1000										
➤ IXBOD 2-11	1100										
➤ IXBOD 2-12	1200										
➤ IXBOD 2-13	1300										
➤ IXBOD 2-14	1400										
➤ IXBOD 2-15R	1500 ± 50	15	20	4-8	200	0.90	250	>1500	20	X202	X202 BOD-Package 
➤ IXBOD 2-15RD											
➤ IXBOD 2-16R	1600										
➤ IXBOD 2-16RD											
➤ IXBOD 2-17R	1700										
➤ IXBOD 2-17RD											
➤ IXBOD 2-18R	1800										
➤ IXBOD 2-18RD											
➤ IXBOD 2-19R	1900										
➤ IXBOD 2-19RD											
➤ IXBOD 2-20R	2000										
➤ IXBOD 2-20RD											
➤ IXBOD 2-21R	2100										
➤ IXBOD 2-21RD											
➤ IXBOD 2-22R	2200										
➤ IXBOD 2-22RD											
➤ IXBOD 2-23R	2300										
➤ IXBOD 2-23RD											
➤ IXBOD 2-24R	2400										
➤ IXBOD 2-24RD											
➤ IXBOD 2-25R	2500										
➤ IXBOD 2-25RD											
➤ IXBOD 2-26R	2600										
➤ IXBOD 2-26RD											
➤ IXBOD 2-27R	2700										
➤ IXBOD 2-27RD											
➤ IXBOD 2-28R	2800										
➤ IXBOD 2-28RD											