

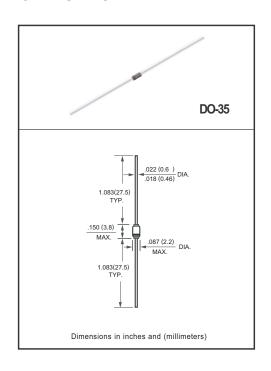
SMALL SIGNAL SWITCHING DIODE

FEATURES

- * Silicon epitaxial planar diode
- * DO-35 Package,glass case
- * High speed switching diode
- * 500 mW power dissipation
- * Polarity: Color band denotes cathode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified.



MAXIMUM RATINGS

MAXIMON INTINO									
		BAV17	BAV18	BAV19	BAV20	BAV21	UNITS		
Reverse voltage	V _R	20	50	100	150	200	V		
Peak reverse voltage	V _{RM}	25	60	120	200	250	V		
Average forw ard rectified current									
Half wave rectification with resist.load	I _(AV)	250 ¹⁾					mA		
@T _A =25°C and f ≥50Hz	` ′								
Forw ard surge current @ t<1s and T _J =25°C	I _{FSM}	1.0				А			
Pow er dissipation @ T _A =25℃	P _{tot}	500 ¹⁾				mW			
Thermal resistance junction to ambient	$R_{\theta JA}$	350			K/W				
Junction temperature	T _J	175					$^{\circ}$ C		
Storage temperature range	T _{STG}	-55 +175					$^{\circ}$ C		

¹⁾Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.

ELECTRICAL CHARACTERISTICS

ELECTRICAL CHARACTERISTICS					
		MIN	TYP	MAX	UNITS
Forward voltage @ I _F =100mA	V _F	-	-	1.0	V
Leakage current @T _j =25 ℃	Ι.	-	-	100	nA
at reverse voltage @Tj=100 ℃	I _R	-	-	15	μА
Capacitance @ V _F =V _R =0V f=1MH _Z	Сл	-	1.5	-	pF
Reverse recovery time from I_F =30mA to I_R =30mA from I_{RR} =3mA, R_I =100 Ω .	t _{rr}	-	-	50	ns

¹⁾Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.

RATING AND CHARACTERISTICS CURVES (BAV17 THRU BAV21)

FIG.1 - FORWARD CHARACTERISTICS

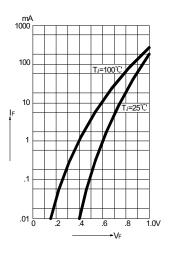


FIG.3 - ADMISSIBLE POWER DISSLIPATION VERSUS

AMBIENT TEMPERATURE

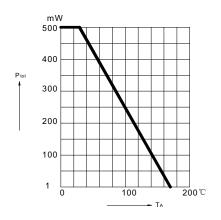


FIG.5 - DYNAMIC FORWARD RESISTANCE VERSUS FORWARD CURRENT

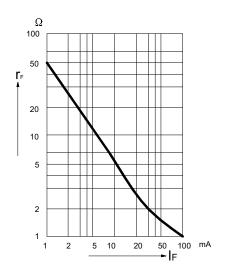


FIG.2 - ADMISSIBLE FORWARD CURRENT VERSUS AMBIENT TEMPERATURE

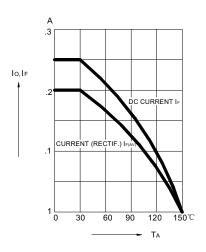


FIG.4 – LEAKAGE CURRENT VERSUS JUNCTION
TEMPERATURE

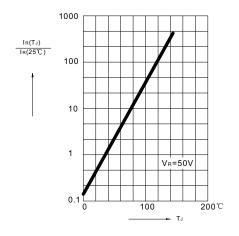
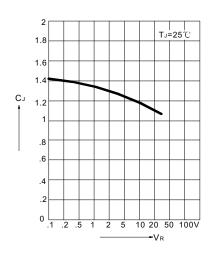
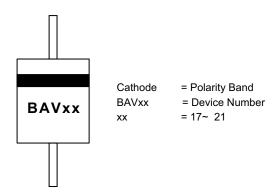


FIG.6 - CAPACITANCE VERSUS REVERSE VOLTAGE





MARKING INFORMATION





PACKAGING OF DIODE

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-35	-B	10,000	240*100*100	410*350*275	120,000	21.5

REEL PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-35	-T	10,000	5.0	52	356	380*380*420	50,000	11.00

AMMO PACK

PACKAGE	PACKING	REEL	COMPONENT	TAPE SPACE	BOX SIZE	CARTON	CARTON	GROSS
	CODE	(EA)	SPACE(mm)	(mm)	(mm)	SIZE(mm)	(EA)	WEIGHT (Kg)
DO-35	-F	5,000	5.0	52	250*80*80	410*260*340	100,000	20.00

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