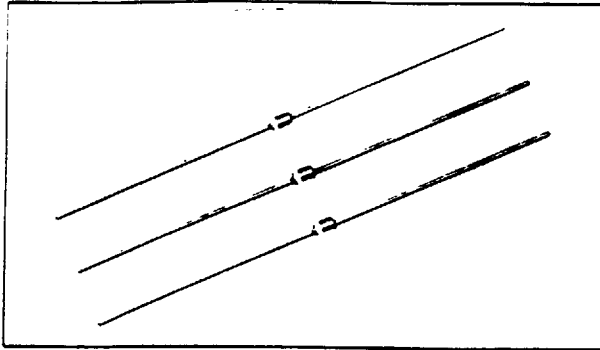


Silicon Epitaxial Planar
High-Speed Switching Mini-Diodes

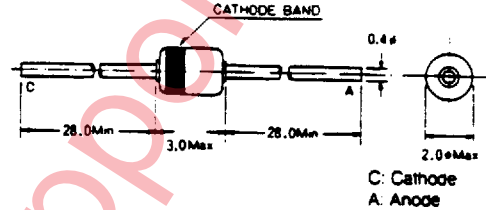


1N4531, 1N4532, 1N4533, 1N4534, 1N4536



Package Outline and Physical Dimensions (mm)

JEDEC: DO-34



Features

1. Ultra compact
 - JEDEC: DO-34
 - Capable of insertion in PC boards at smaller pitches
2. High reliability
3. High speed (t_{rr} : 1ns, typ)
4. Glass seal

Application

High-speed switching

Absolute Maximum Ratings ($T_s = 25^\circ\text{C}$)

Type	Peak reverse voltage V_{RM} (V)	Reverse DC voltage V_R (V)	Peak forward current I_{FM} (mA)	Average rectified current I_o (mA)	Forward DC current I_F (mA)	*Peak forward surge current I_{FSM} (A) ($1\mu\text{s}$)	Power dissipation P_s (mW)
1N4531	100	75	450	150	200	2	500
1N4532	75	50	450	150	200	2	500
1N4533	40	30	450	150	200	2	500
1N4534	75	50	450	150	200	2	500
1N4536	35	25	450	150	200	2	500

Notes: T_s : 200°C . T_{rr} : $-65\sim 200^\circ\text{C}$. T_{sm} : $-65\sim 200^\circ\text{C}$

Electrical Characteristics ($T_s = 25^\circ\text{C}$)

Type	V_f (V) (min/max)											BV (V) (min)		I_s (μA) (max)		C_j (pF) (max)	L_s (ns) (max)		
	0.1mA	0.25mA	1mA	2mA	5mA	10mA	20mA	30mA	50mA	100mA	200mA	250mA	5mA	100mA	25°C			150°C	
	V_a		V_a		V_a		V_a		V_a		V_a		V_a	V_a	$V_a = 0$			$V_a = 5V$	
1N4531	/											75	100	0.025	20V	50	20V	4	4
1N4532	/											75	100	0.1	90V	100	90V	2	2
1N4533	0.48	0.53	0.58	0.62	0.70	0.74	0.88	/				40	0.05	30V	50	30V	2	2	
1N4534	0.48	0.53	0.58	0.62	0.70	0.74	0.88	/				75	0.05	90V	50	90V	2	2	
1N4536	/											35	0.1	25V	100	25V	4	2	