

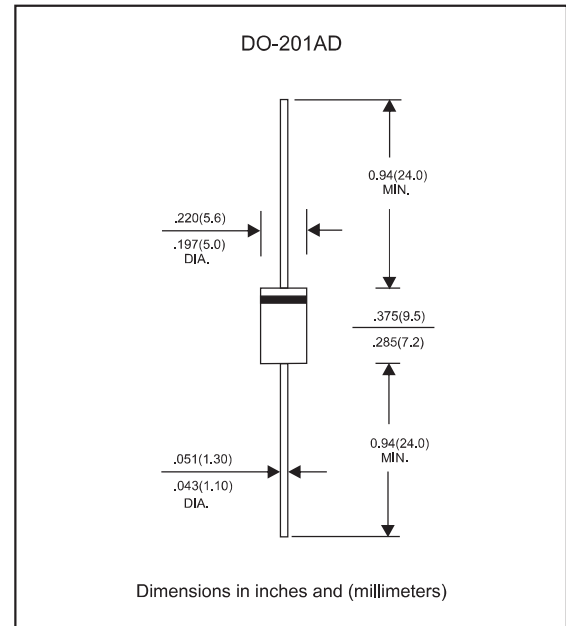
Features

- Periodische Spitzensperrspannung
- Kunststoffgehäuse
- Weight approx. – Gewicht ca.
- Plastic material has UL classification 94V-0
- Gehäusematerial UL94V-0 klassifiziert

Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

Package outline



Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Type Typ	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V]	Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V]
BY251	200	200
BY252	400	400
BY253	600	600
BY254	800	800
BY255	1300	1300
BY1600	1600	1600
BY1800	1800	1800
BY2000	2000	2000

Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last	$T_A = 50^\circ\text{C}$	I_{FAV}	3 A ³⁾
Repetitive peak forward current – Periodischer Spitzenstrom	$f > 15$ Hz	I_{FRM}	20 A ³⁾
Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwellen	$T_A = 25^\circ\text{C}$	I_{FSM}	100/110 A
Rating for fusing, Grenzlastintegral, $t < 10$ ms	$T_A = 25^\circ\text{C}$	$i^2 t$	50 A ² s
Junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_s	-50...+150°C -50...+175°C

Characteristics

Forward voltage – Durchlass-Spannung	$T_j = 25^\circ\text{C}$	$I_F = 3\text{ A}$	V_F	$< 1.1\text{ V}$
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	I_R	$< 5\text{ }\mu\text{A}$
Typical junction capacitance Typische Sperrschichtkapazität		$V_R = 4\text{ V}$	C_j	20 pF
Reverse recovery time Sperrverzögerung	$I_F = 0.5\text{ A through/über}$ $I_R = 1\text{ A to } I_R = 0.25\text{ A}$		t_{rr}	typ. 1500 ns
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft			R_{thA}	$< 25\text{ K/W}^1)$
Thermal resistance junction to leads Wärmewiderstand Sperrschicht – Anschlussdraht			R_{thL}	$< 10\text{ K/W}$

