

Axial lead diode

Fast silicon rectifier diodes

BA 3060

Forward Current: 3 A

Reverse Voltage: 600 to 600 V

Features

- Max. solder temperature: 260°C
- Plastic material has UL classification 94V-0

Mechanical Data

- Plastic case DO201
- Weight approx.: 1 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 1700 pieces per ammo

1) Valid, if leads are kept at ambient temperature at a distance of 10 mm from case

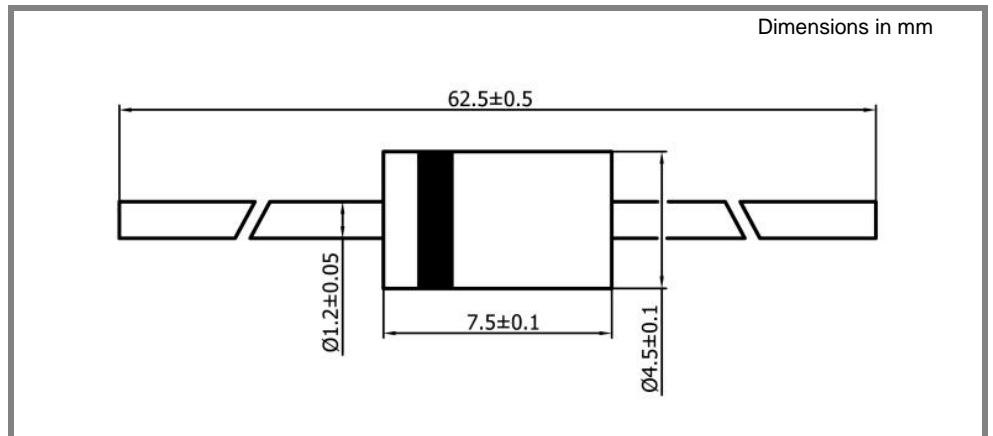
2) $I_F = 5 A$, $T_j = 25\text{ °C}$

3) $T_A = 25\text{ °C}$

Type	Repetitive peak reverse voltage	Surge peak reverse voltage	Max. reverse recovery time	Max. forward voltage
BA 3060	V_{RRM} V 600	V_{RSM} V 750	$I_F = 0,5 A$ $I_R = 1 A$ $I_{RR} = 0,25 A$ t_{rr} ns 250	$V_F^{2)}$ 1,5

Absolute Maximum Ratings		$T_c = 25\text{ °C}$, unless otherwise specified	
Symbol	Conditions	Values	Units
I_{FAV}	Max. averaged fwd. current, R-load, $T_A = 50\text{ °C}$ ¹⁾	3	A
I_{FRM}	Repetitive peak forward current $f > 15\text{ Hz}$ ¹⁾	30	A
I_{FSM}	Peak forward surge current 50 Hz half sinus-wave ³⁾	200	A
i^2t	Rating for fusing, $t < 10\text{ ms}$ ³⁾	50	A ² s
R_{thA}	Max. thermal resistance junction to ambient ¹⁾	45	K/W
R_{thT}	Max. thermal resistance junction to terminals ¹⁾	-	K/W
T_j	Operating junction temperature	-50...+150	°C
T_s	Storage temperature	-50...+175	°C

Characteristics		$T_c = 25\text{ °C}$, unless otherwise specified	
Symbol	Conditions	Values	Units
I_R	Maximum leakage current, $T_j = 25\text{ °C}$; $V_R = V_{RRM}$	<5	µA
	$T_j = 125\text{ °C}$; $V_R = V_{RRM}$	<100	µA
C_j	Typical junction capacitance (at MHz and applied reverse voltage of V)	-	pF
Q_{rr}	Reverse recovery charge ($U_R = V$; $I_F = A$; $dI_F/dt = A/ms$)	-	µC
E_{RSM}	Non repetitive peak reverse avalanche energy ($I_R = mA$; $T_j = 150\text{ °C}$; inductive load switched off)	10	mJ



case: DO-201

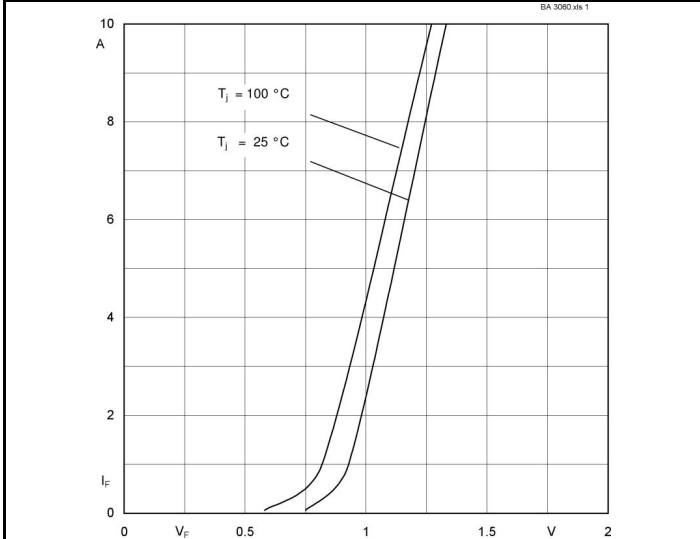


Fig. 1 Forward characteristic (typical values)

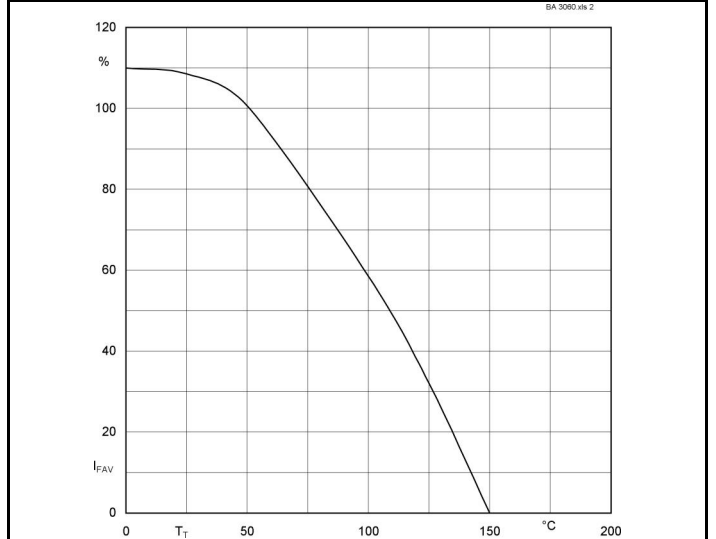


Fig. 2 Rated forward current vs. ambient temperature

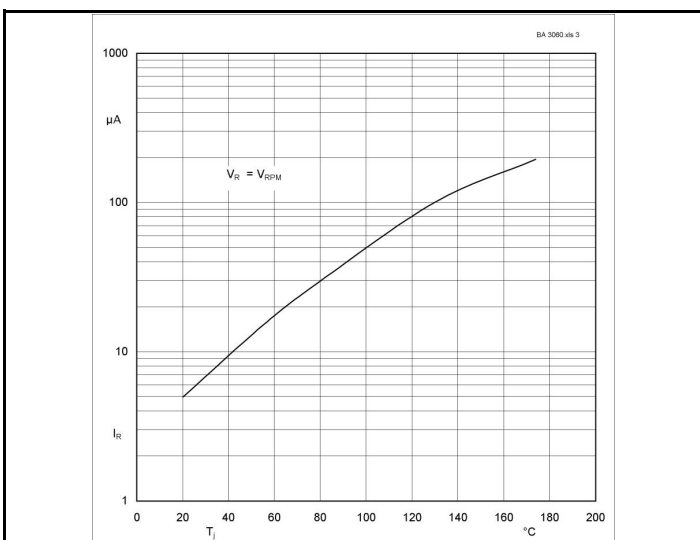


Fig. 3 Rev. curr. as a function of jun. temperature