



# TAYCHIPST Standard silicon rectifier diodes

**BY226G, BY227G, BY228G**

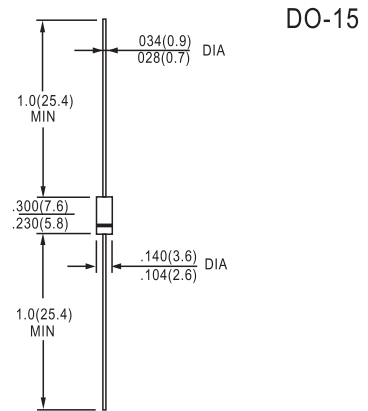
450V-1500V 3.0A

## FEATURES

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

## MECHANICAL DATA

- Plastic case DO-201
- Weight approx.: 1 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 1700 pieces per ammo



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Type	Repetitive peak reverse voltage $V_{RRM}$ V	Surge peak reverse voltage $V_{RSM}$ V	Max. reverse recovery time $I_F = -A$ $I_R = -A$ $I_{RR} = -A$ $t_{rr}$ ns	Max. forward voltage $V_F^{(2)}$
BY 226G	450	650	-	1,3
BY 227G	800	1250	-	1,3
BY 228G	1500	1800	-	1,3

Absolute Maximum Ratings			
Symbol	Condition	Values	Units
$I_{FAV}$	Max. averaged fwd. current, R-load, $T_A = 50^\circ\text{C}^{(1)}$	3	A
$I_{FRM}$	Repetitive peak forward current $f > 15\text{ Hz}^{(1)}$	10	A
$I_{FSM}$	Peak forward surge current 50 Hz half sinus-wave $^{(3)}$	50	A
$i^2t$	Rating for fusing, $t < 10\text{ ms}^{(3)}$	12,5	$\text{A}^2\text{s}$
$R_{thA}$	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...+175	$^\circ\text{C}$
$T_s$	Storage temperature	-50...+175	$^\circ\text{C}$





**RATINGS AND CHARACTERISTIC CURVES BY226G,BY227G,BY228G**

<b>Characteristics</b>			
<b>Symbol</b>	<b>Conditions</b>	<b>Values</b>	<b>Units</b>
$I_R$	Maximum leakage current, $T_j = 25\text{ }^\circ\text{C}$ ; $V_R = V_{RRM}$	<10	$\mu\text{A}$
	$T_j = 100\text{ }^\circ\text{C}$ ; $V_R = V_{RRM}$	<50	$\mu\text{A}$
$C_J$	Typical junction capacitance (at MHz and applied reverse voltage of V)	-	pF
$Q_{rr}$	Reverse recovery charge ( $U_R = V$ ; $I_F = A$ ; $dI_F/dt = A/ms$ )	-	$\mu\text{C}$
$E_{RSM}$	Non repetitive peak reverse avalanche energy ( $I_R = \text{mA}$ ; $T_j = \text{ }^\circ\text{C}$ ; inductive load switched off)	-	mJ

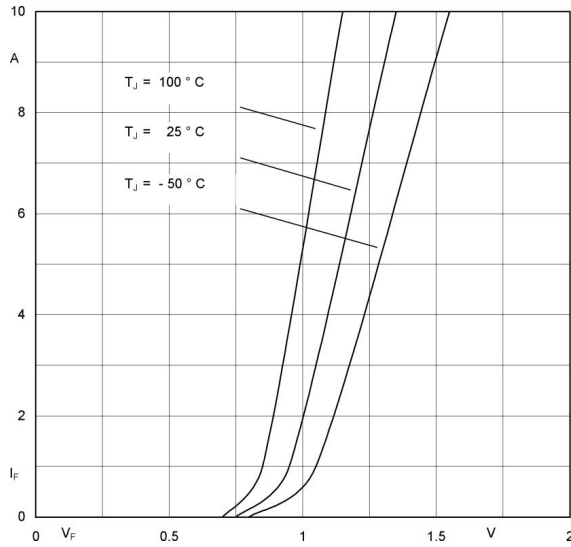


Fig. 1 Forward characteristic ( typical values )

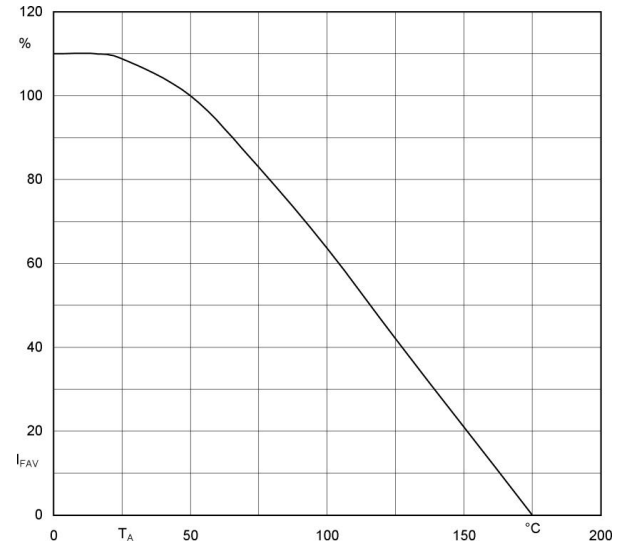


Fig. 2 Rated forward current vs. ambient temperature <sup>1)</sup>

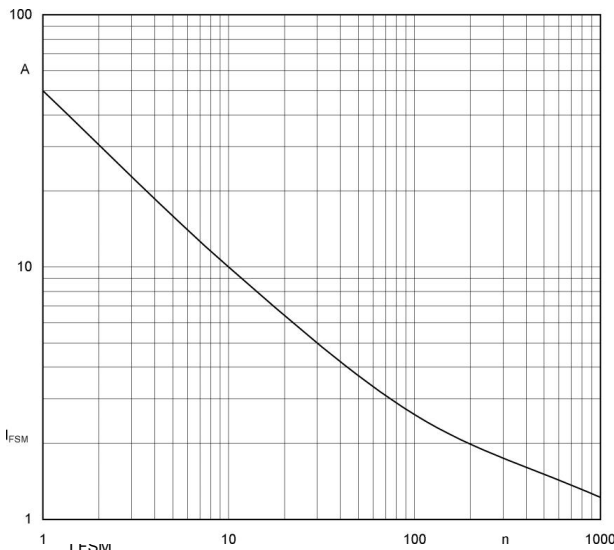


Fig. 3 current versus number of cycles at 50 Hz