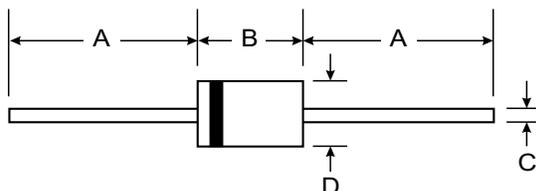


Features

- Controlled avalanche characteristics
- Miniature axial leaded
- Glass passivated
- Hermetically sealed glass envelope
- Low reverse current
- High reverse voltage



Mechanical Data

- Case: Molded Plastic

DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Test Conditions	Type	Symbol	Value	Unit		
Reverse voltage =Repetitive peak reverse voltage		BYT41A	V _R =V _{RRM}	50	V		
		BYT41B		100	V		
		BYT41D		200	V		
		BYT41G		400	V		
		BYT41J		600	V		
		BYT41K		800	V		
		BYT41M		1000	V		
Peak forward surge current	t _p =8.3 ms, half sinewave		I _{FSM}	30	A		
Average forward current	Lead length l = 10 mm, T _L = 25°C		I _{FAV}	1.25	A		
Non repetitive reverse avalanche energy	I _{(BR)R} =1A, inductive load		E _R	10	mJ		
Junction and storage temperature range			T _j =T _{stg}	-55...+175	°C		
Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 1 A		V _F			1.1	V
Reverse current	V _R =V _{RRM}		I _R			5	μA
	V _R =V _{RRM} , T _j =150°C		I _R			150	μA
Reverse breakdown voltage	I _R =100μA	BYT41A	V _{(BR)R}	50			V
		BYT41B	V _{(BR)R}	100			V
		BYT41D	V _{(BR)R}	200			V
		BYT41G	V _{(BR)R}	400			V
		BYT41J	V _{(BR)R}	600			V
		BYT41K	V _{(BR)R}	800			V
		BYT41M	V _{(BR)R}	1000			V
Reverse recovery time	I _F =0.5A, I _R =1A, i _R =0.25A		t _{rr}			2	μs

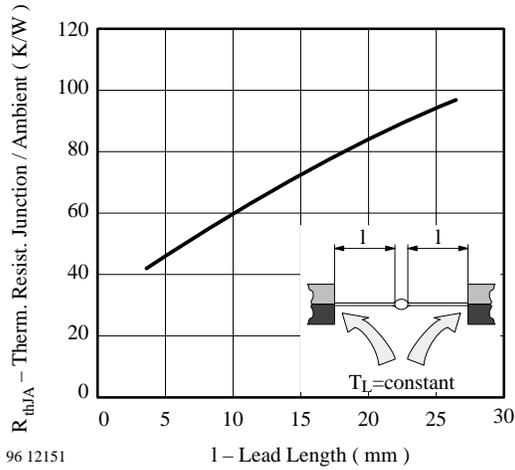


Figure 1. Max. Thermal Resistance vs. Lead Length

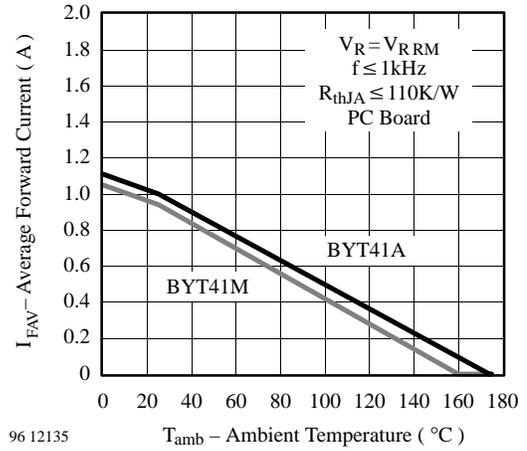


Figure 2. Max. Average Forward Current vs. Ambient Temperature

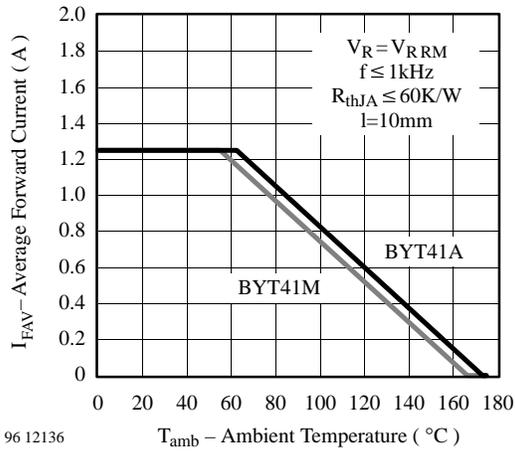


Figure 3. Max. Average Forward Current vs. Ambient Temperature

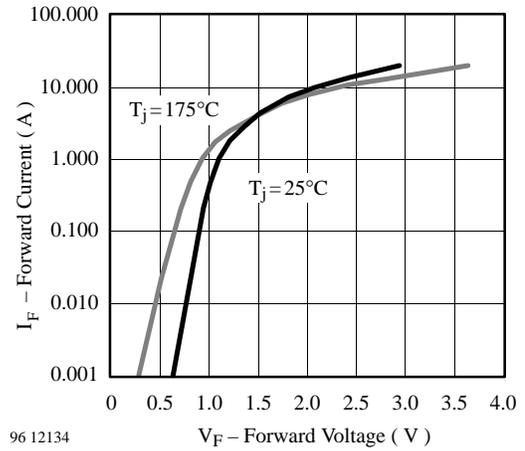


Figure 5. Max. Forward Current vs. Forward Voltage

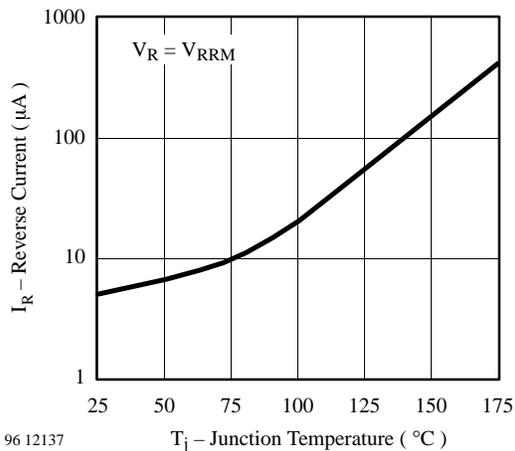


Figure 4. Max. Reverse Current vs. Junction Temperature