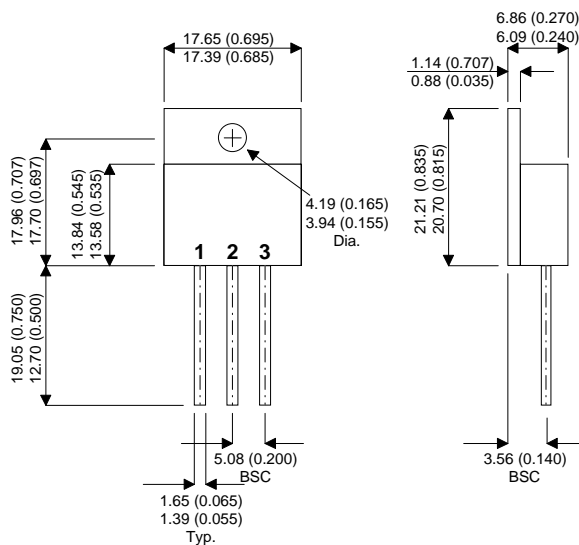


MECHANICAL DATA

Dimensions in mm

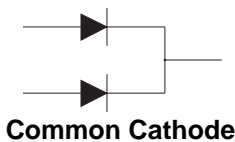


TO-258 Package Outline.
Dimensions in mm (inches)

**DUAL SCHOTTKY
BARRIER DIODE
IN TO-258 HERMETIC METAL
PACKAGE FOR HI-REL
APPLICATIONS**

FEATURES

- SCREENING OPTIONS AVAILABLE
- OUTPUT CURRENT 45A
- LOW V_F
- LOW LEAKAGE



1 = A₁ Anode 1
2 = K Cathode
3 = A₂ Anode 2

ABSOLUTE MAXIMUM RATINGS ($T_{case} = 25^{\circ}C$ unless otherwise stated)

V_{RRM}	DC Reverse Voltage	100V
V_{RSM}	Peak Non-Repetitive Reverse Voltage	100V
V_R	Continuous Reverse Voltage	100V
$I_{F(AV)}$	Maximum Average Forward Current	45A*
I_{FSM}	Peak Non-Repetitive Surge Current at 50Hz (per leg)	400A
T_{STG}	Storage Temperature Range	-55°C to 150°C
T_J	Maximum Operating Junction Temperature	-55°C to 150°C

* $I_{F(AV)}$ current is limited by pin diameter

Semelab Plc reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.

ELECTRICAL CHARACTERISTICS (T_{CASE} = 25°C unless otherwise stated)

Parameter		Test Conditions		Min.	Typ.	Max.	Unit
V _R	Max. DC Reverse Voltage					100	V
V _{RWM}	Max. Working Peak Reverse Voltage					100	
I _{F(AV)}	Average Forward Current	50% Duty Cycle	T _C =100°C			45	A
I _{FSM}	Peak Non-Repetitive Surge Current	T _p =8.3ms Half Sine				400	
V _{FM}	Forward Voltage Drop (Per Leg)	I _F =25A	T _J = 25°C			0.89	V
		I _F =45A	T _J = 25°C			1.13	
		I _F =25A	T _J = 125°C			0.74	
		I _F =45A	T _J = 125°C			0.97	
I _{RM}	Reverse Leakage Current	V _R = Rated V _R	T _J = 25°C			0.8	mA
			T _J = 125°C			45	
C _T	Junction Capacitance	V _R = 5V _{DC}	(1MHz, 25°C)			1400	pF
L _S	Typical Series Inductance	(Anode Lead to Cathode Lead)				8.7	nH
R _{thJC}	Thermal Resistance Junction to Case (Per Leg)	DC Operation				0.83	°C/W
R _{thJC}	Thermal Resistance Junction to Case (Per Package)	DC Operation				0.42	

*Pulse test tp=300µs δ≤2%