

### Maximum Ratings (Per Leg) @TA = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>RM</sub>	120	V
Average Rectified Output Current Per Device (Per Leg) (Total)	Io	5 10	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I <sub>FSM</sub>	110	А

## Thermal Characteristics (Per Leg)

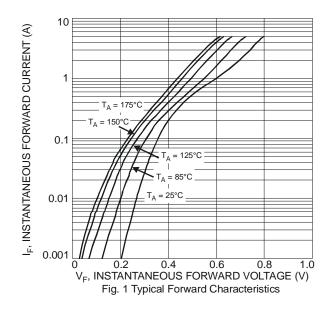
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance(Note 4)	$R_{ heta JC}$	20	°C/W
Operating and Storage Temperature Range	$T_{J}, T_{STG}$	-65 to +175	°C

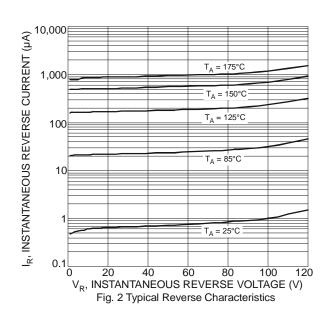
### Electrical Characteristics (Per Leg) @TA = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF	-	0.81	0.88	/	$I_F = 5A, T_J = 25^{\circ}C$
Forward Voltage Drop	VF	-	-	0.74		$I_F = 5A, T_J = 125^{\circ}C$
Leakage Current (Note 3)	_	-	-	0.1	<b>~</b> Λ	$V_R = 120V, T_J = 25^{\circ}C$
Leakage Current (Note 3)	IR	-	-	20	mA	V <sub>R</sub> = 120V, T <sub>J</sub> = 125°C

Notes:

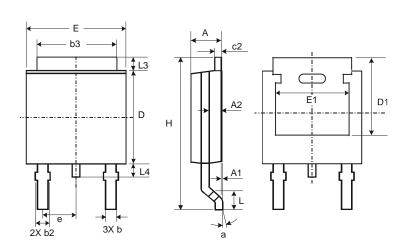
- 3. Short duration pulse test used to minimize self-heating effect.
- 4. Device mounted on Polymide substrate, 125mm2 copper pad, double-sided, PC boards.





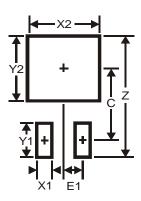


# **Package Outline Dimensions**



	TO252				
Dim	Min	Max	Тур		
Α	2.19	2.39	2.29		
<b>A</b> 1	0.00	0.13	0.08		
A2	0.97	1.17	1.07		
b	0.64	0.88	0.783		
b2	0.76	1.14	0.95		
b3	5.21	5.46	5.33		
c2	0.45	0.58	0.531		
D	6.00	6.20	6.10		
D1	5.21	_	_		
е	_	_	2.286		
Е	6.45	6.70	6.58		
E1	4.32	_	_		
Н	9.40	10.41	9.91		
L	1.40	1.78	1.59		
L3	0.88	1.27	1.08		
L4	0.64	1.02	0.83		
а	0°	10°	_		
All Dimensions in mm					

# **Suggested Pad Layout**



Dimensions	Value (in mm)
Z	11.6
X1	1.5
X2	7.0
Y1	2.5
Y2	7.0
С	6.9
E1	2.2

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