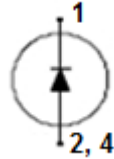




## Rectifier Diodes 100A, 1600V In Isolated SOT227 Package

- High voltage
- High surge capability
- Pb-free finished; RoHS compliant



### MAXIMUM RATINGS, at $T_j = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	$V_{RRM}$	1600	V
Average forward current $T_C = 100^\circ\text{C}$	$I_{F(AV)}$	100	A
Maximum RMS forward current	$I_{F(RMS)}$	157	
Surge non-repetitive forward current $t_p = 10 \text{ ms}$ , no voltage reapplied, half sine wave	$I_{FSM}$	2020	
Soldering temperature Wave soldering, 1.6 mm (0.063 in.) from case for 10s	$T_S$	260	$^\circ\text{C}$
Operating junction and storage temperature	$T_j, T_{stg}$	-40... +150	

### Thermal and Isolation Characteristics

Parameter	Symbol	Max. Value	Units
<b>Characteristics</b>			
Thermal resistance, junction to case	$R_{thJC}$	0.22	$^\circ\text{C}/\text{W}$
Isolation voltage, RMS (measured between terminals and mounting base, 50-60 Hz, for 1 – 3 seconds)	$V_{iso}$	3000	V

### Electrical Characteristics, at $T_j = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
<b>Static Characteristics</b>					
Reverse leakage current $V_R = 1600\text{V}$	$I_R$	-	-	10	mA
Forward voltage drop $I_F = 100\text{A}$	$V_F$	-	1.55	-	V



### Package Outline Drawing

