

# SRL2540

## Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 40 V

Forward Current - 25 A

### Features

- Low Power Loss / High Efficiency
- Low Forward Voltage Drop
- High Current Capability
- Highly Stable Oxide Passivated Junction
- Guard-Ring for stress Protection
- High Surge Capability
- High ESD Capability

### Mechanical Data

**Case:** Molded plastic, D<sup>2</sup>PAK

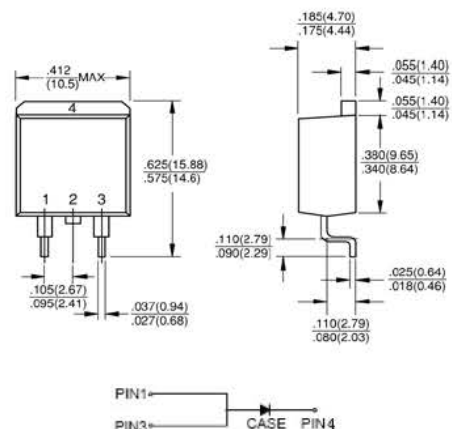
**Epoxy:** UL 94V-0 rate flame retardant

**Lead:** Axial leads, solderable per MIL-STD-202, method 208 guaranteed

**Polarity:** As marked

**Mounting position:** Any

D<sup>2</sup>PAK



### Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Maximum RMS voltage	$V_{RMS}$	28	V
Maximum DC Blocking Voltage	$V_{DC}$	40	V
Maximum Average Forward Rectified Current at $T_a = 25^\circ\text{C}$	$I_{F(AV)}$	25	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	400	A
Peak Forward Voltage at $I_F = 25\text{ A}$	$V_F$	0.5	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	$I_R$	0.5 50	mA
Typical Thermal Resistance	$R_{\theta JC}$	2	$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_{op}$	- 40 to + 150	$^\circ\text{C}$
Junction Temperature in DC Forward Current Without Reverse Bias.	$T_J$	- 40 to + 200	$^\circ\text{C}$
Operating and Storage Temperature Range	$T_{stg}$	- 40 to + 175	$^\circ\text{C}$

