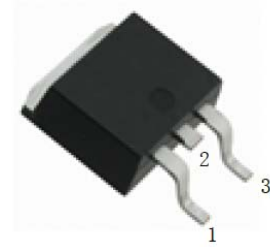
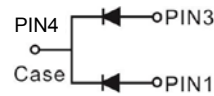


SDB2080R

Surface Mount Schottky Barrier Rectifier



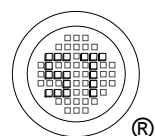
TO-252 Plastic Package

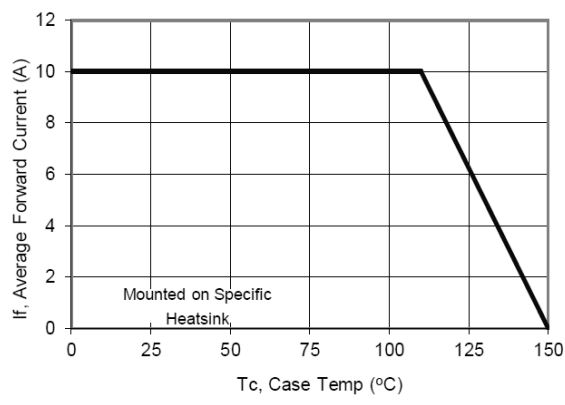
Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	80	V
Working Peak Reverse Voltage	V_{RWM}	80	V
DC Blocking Voltage	V_R	80	V
Average Forward Current	$I_{F(AV)}$	20	A
Peak Forward Surge Current (1/2 60 Hz)	I_{FSM}	180	A
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	3	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	- 40 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 150	$^\circ\text{C}$

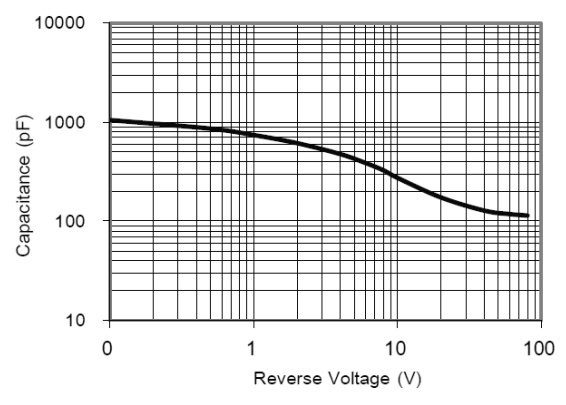
Characteristics at $T_a = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 5\text{ A}$ at $I_F = 10\text{ A}$ at $I_F = 5\text{ A}$, $T_J = 125^\circ\text{C}$ at $I_F = 10\text{ A}$, $T_J = 125^\circ\text{C}$	V_F	0.52 - 0.46 -	- 0.67 - 0.64	V
Reverse Current at $V_R = 80\text{ V}$ at $V_R = 80\text{ V}$, $T_J = 125^\circ\text{C}$	I_R	- -	300 20	μA mA

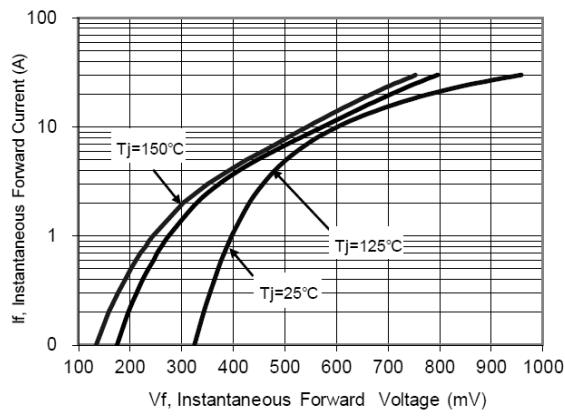




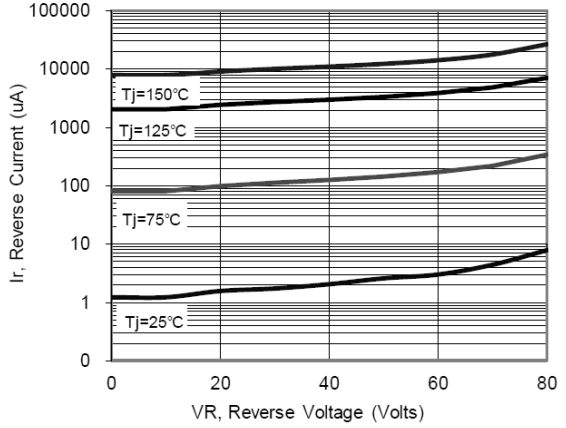
Current Derating, Case



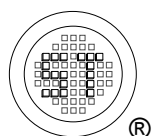
Typical Junction Capacitance



Typical Forward Voltage

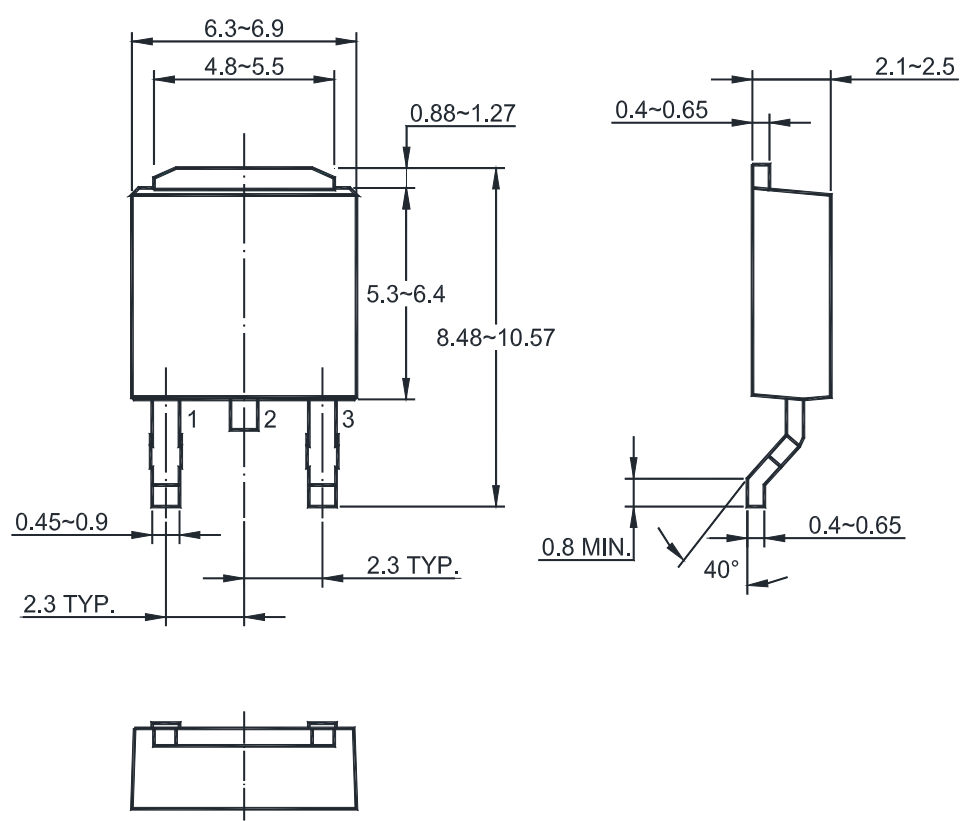


Typical Reverse Current



Package Outline (Dimensions in mm)

TO-252



Recommended Soldering Footprint

