

Product Character

- Multilayer Metal-Silicon Potential Structure.
- Low Leakage Current.
- High Current Capability, High Efficiency.
- High Junction Temperature Capability.
- RoHS Product.

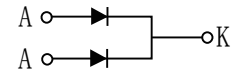
Primary Use

- Low Voltage High Frequency Switching Power Supply.
- Low Voltage High Frequency Inverter Circuit.
- Low Voltage Continued Circuit Protection Circuit.

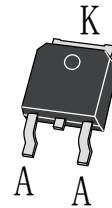
Summarize

● SR20150CS Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply applications.

Equivalent Circuit



T0 -252 -2L



Absolute Maximum Ratings

Item	Symbol	Data	Unit
Maximal Inverted Repetitive Peak Voltage	V_{RRM}	150	V
*Average Rectified Forward Current (Rated VR -20Khz Square Wave) -50% duty cycle	I_{FAV}	20	A
Forward Peak Surge Current (Rated Load 8.3 Half Mssine Wave - According to JEDEC Method)	I_{FSM}	260×2	A
Operating Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-40 ~ 150	°C
Typical Thermal Resistance (per leg) Package=T0 -252 -2L	$R_{\theta JC}$	3	°C/W

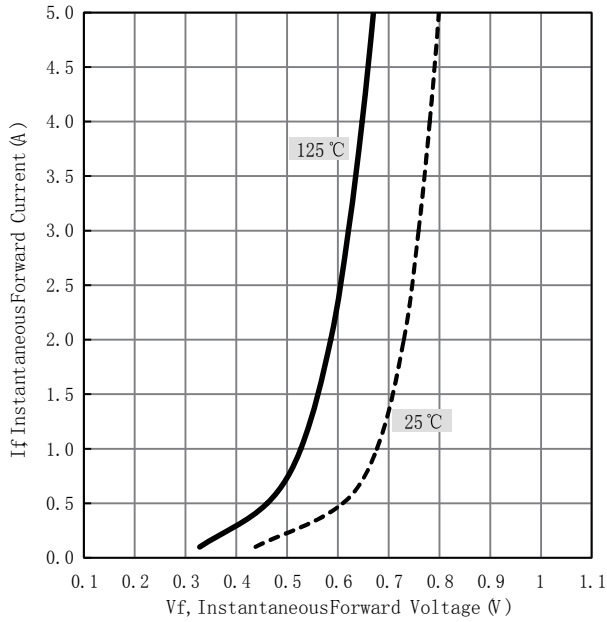
Electricity Character

Item	Test Condition		Value (min)	Value (typ)	Value (max)	Unit
V_B	$T_J = 25 \text{ }^\circ\text{C}$	$I_R = 1\text{mA}$	100	---	---	V
I_R	$T_J = 25 \text{ }^\circ\text{C}$	$V_R = 100\text{V}$	---	---	0.01	mA
	$T_J = 125 \text{ }^\circ\text{C}$	$V_R = 100\text{V}$	---	---	10.00	mA
V_F	$T_J = 25 \text{ }^\circ\text{C}$	$I_F = 10\text{A}$	---	0.83	0.92	V
	$T_J = 125 \text{ }^\circ\text{C}$	$(I_{FAV} = 10\text{A} \times 2)$	---	---	0.75	V

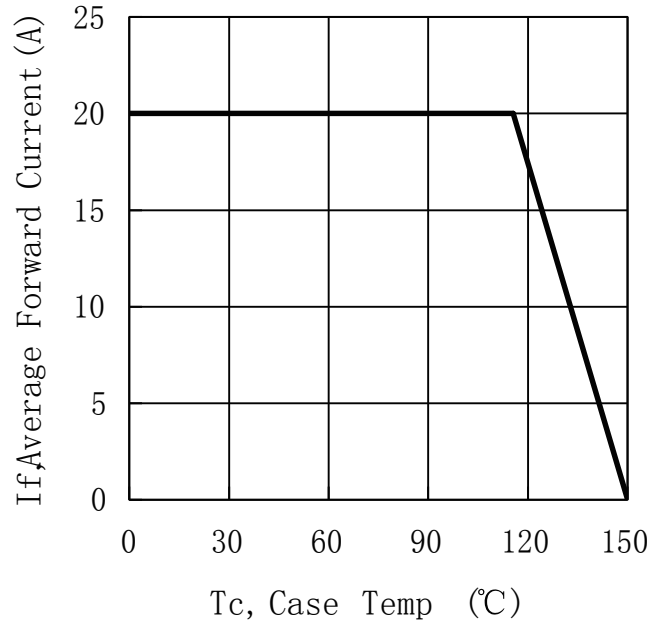


Characteristic Curves

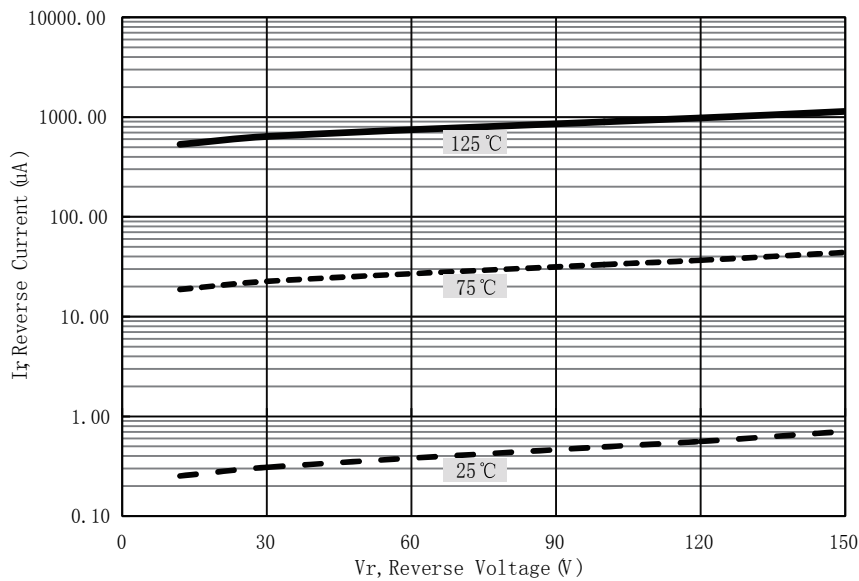
The forward voltage and forward current curve



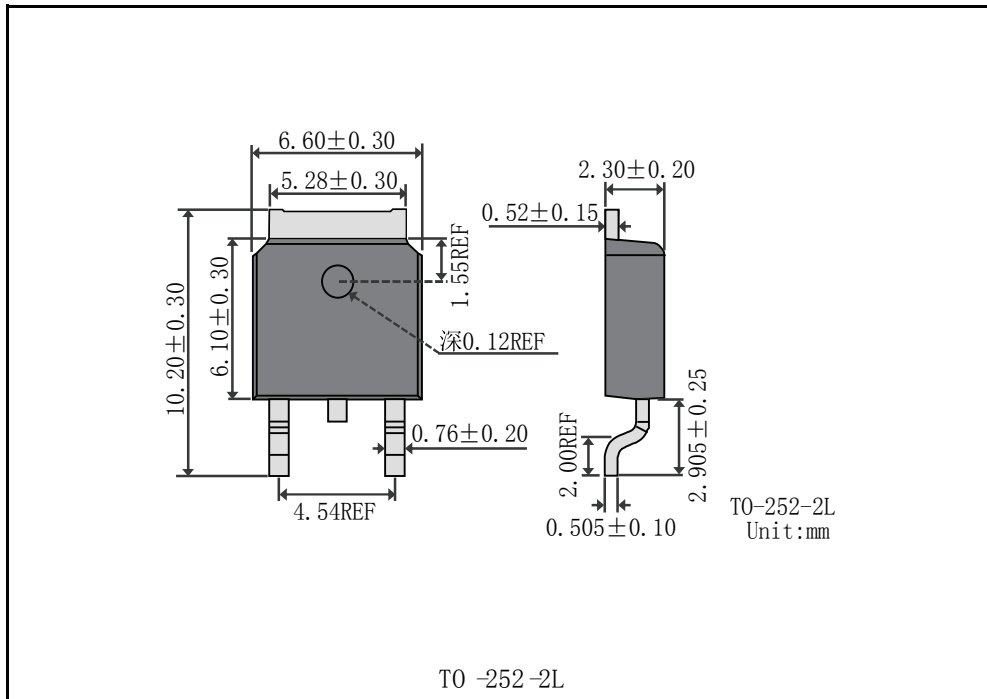
Current derating curve, per element



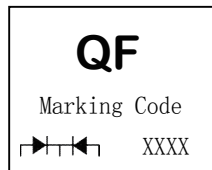
The reverse leak current and the reverse voltage (single-device) curve.



Package Outline Dimensions



Marking Information



“QF ”= Product Logo
 “Marking Code” = The Following
 “XXXX ”= Date Code Marking

Packing Information

Packaging	Package	Part Number	Quantity	Size
Tube	T0 -252 -2L	Tube	80 pieces	540*20*5mm
		InnerBox	4000 pieces	565*158*55mm
		Outer Box	20000 pieces	590*310*180mm
Reel	T0 -252 -2L	Reel	3000 pieces	330*15mm
		InnerBox	3000 pieces	345*345*25mm
		Outer Box	30000 pieces	355*290*375mm

