

Product Character

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

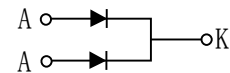
Primary Use

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

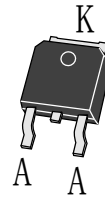
Summarize

● SR10150CS 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}	10	A
Forward Peak Surge Current (Rated Load 8.3 Half Mssine Wave - According to JEDEC Method)	I_{FSM}	190 $\times 2$	A
Operating Junction Temperature	T_J	150	$^{\circ}C$
Storage Temperature	T_{STG}	-40 ~ 150	$^{\circ}C$
Typical Thermal Resistance (per leg)	Package = T0 -252 -2L	$R_{\theta JC}$	3 $^{\circ}C/W$

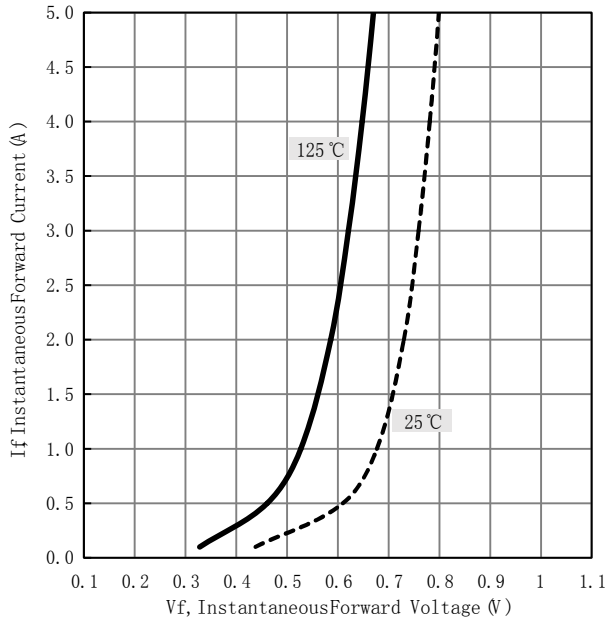
Electricity Character

Item	Test Condition		Value (min)	Value (typ)	Value (max)	Unit
V_B	$T_J = 25^{\circ}C$	$I_R = 1mA$	150	---	---	V
I_R	$T_J = 25^{\circ}C$	$V_R = 150V$	---	---	0.01	mA
	$T_J = 125^{\circ}C$	$V_R = 150V$	---	---	10.00	mA
V_F	$T_J = 25^{\circ}C$	$I_F = 5A$	---	0.8	0.9	V
	$T_J = 125^{\circ}C$	$(I_{FAV} = 5A \times 2)$	---	---	0.75	V

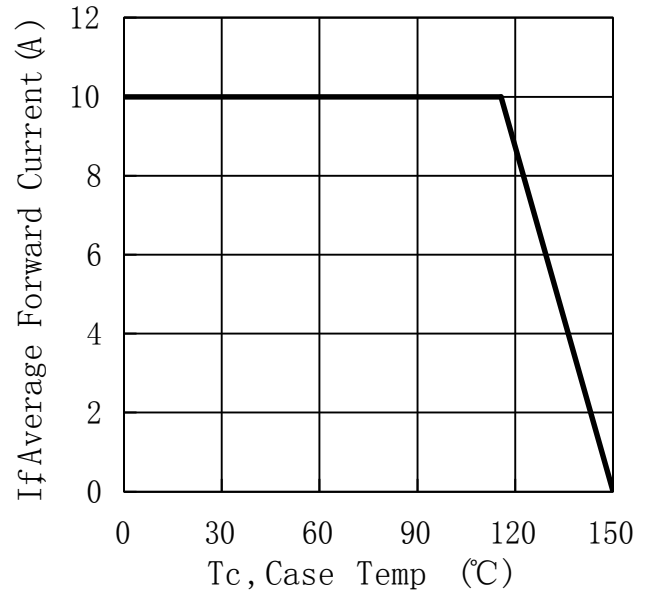


Characteristic Curves

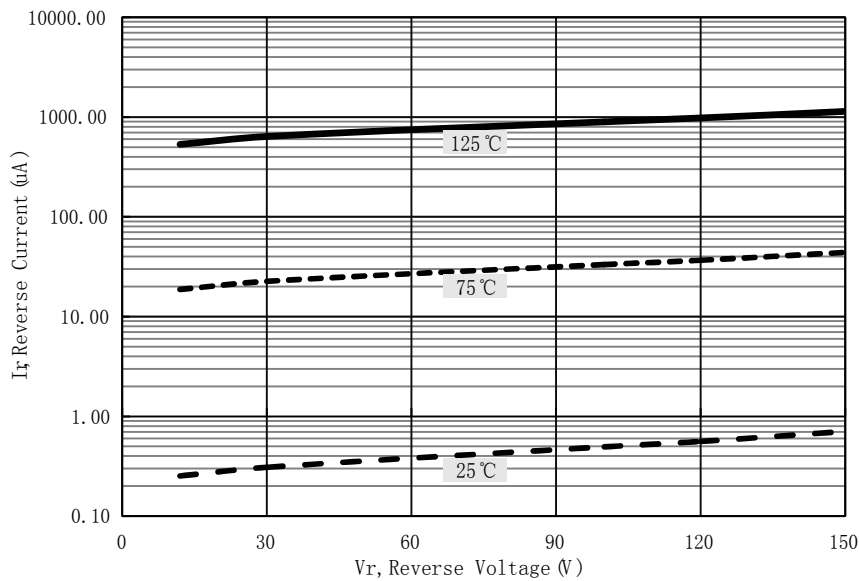
The forward voltage and forward current curve



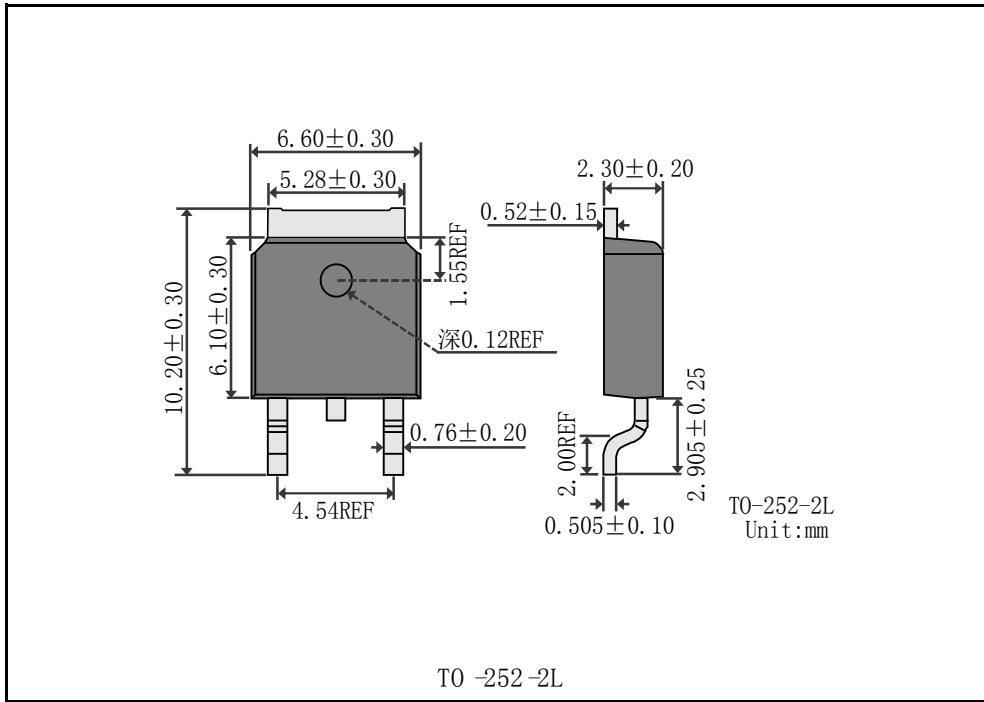
Current derating curve, per element



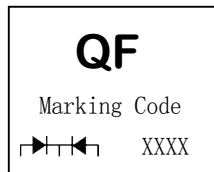
The reverse leak current and the reverse voltage (single-device) curve.



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

