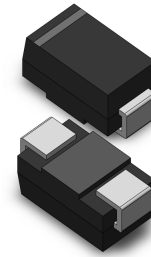


VOLTAGE RANGE: 1000V
CURRENT: 1.5 A

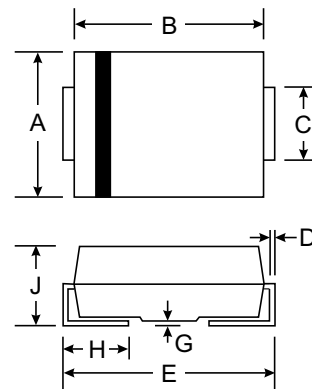


Features

- Glass passivated junction
- Low reverse current
- High reverse voltage
- Fast reverse recovery time
- Wave and reflow solderable

Mechanical Data

- Case: SMA(DO-214AC), Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Mounting Position: Any
- Weight: 0.064 grams (approx.)



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

Parameter	Test Conditions	Type	Symbol	Value	Unit
Reverse voltage= Repetitive peak reverse voltage			V _R = V _{RRM}	1000	V
Peak forward surge current	t _p =10ms, half sinewave		I _{FSM}	30	A
Average forward current	T _{amb} = 65°C		I _{FAV}	1.5	A
Junction and storage temperature range			T _j =T _{stg}	-55...+150	°C
Pulse energy in avalanche mode, non repetitive (inductive load switch off)	I _{(BR)R} =1A		E _R	20	mJ

Maximum Thermal Resistance jT = 25C

Parameter	Test Conditions	Symbol	Value	Unit
Junction case		R _{thJC}	25	K/W
Junction ambient	mounted on epoxy-glass hard tissue, 17mm ² 35μm Cu	R _{thJA}	150	K/W
	mounted on epoxy-glass hard tissue, 50mm ² 35μm Cu	R _{thJA}	125	K/W
	mounted on Al-oxid-ceramic (Al ₂ O ₃), 50mm ² 35μm Cu	R _{thJA}	100	K/W

Electrical Characteristics jT = 25C

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F =1.0A		V _F			1.7	V
	I _F =1.0A, T _J = 150°C		V _F			1.35	V
Reverse current	V _R =V _{RRM}		I _R			5	μA
	V _R =V _{RRM} , T _J =125°C		I _R			50	μA
Breakdown voltage	I _R = 100 μA		V _{(BR)R}	1000			V
Reverse recovery time	I _F =0.5A, I _R =1A, i _R =0.25A		t _{rr}			75	ns

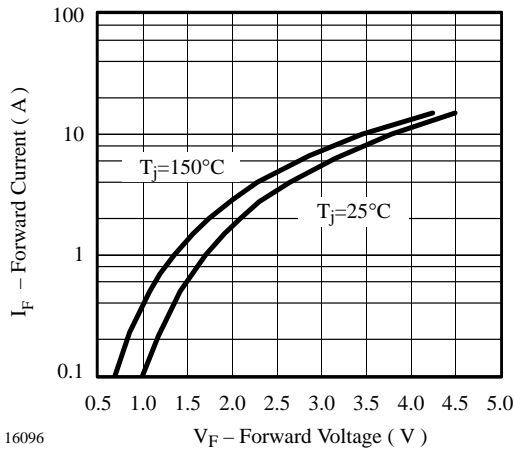


Figure 1. Max. Forward Current vs. Forward Voltage

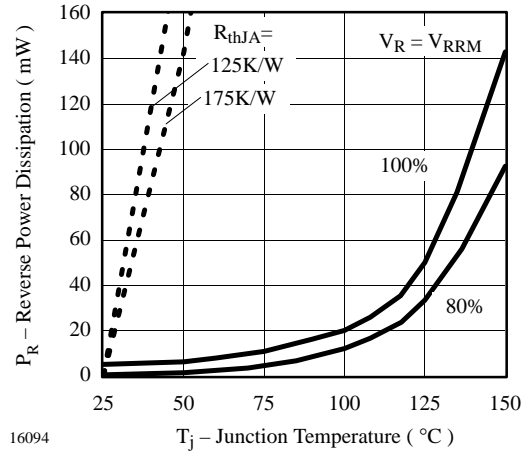


Figure 3. Max. Reverse Power Dissipation vs. Junction Temperature

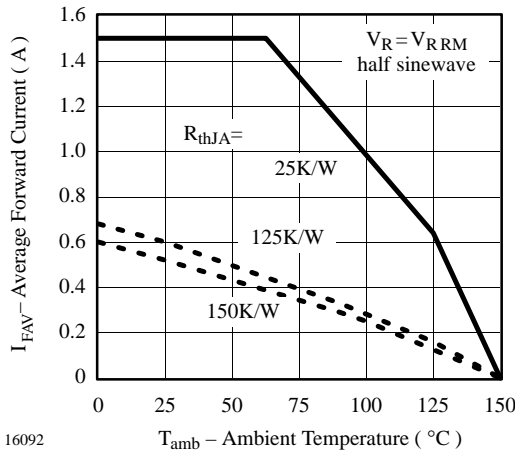


Figure 2. Max. Average Forward Current vs. Ambient Temperature

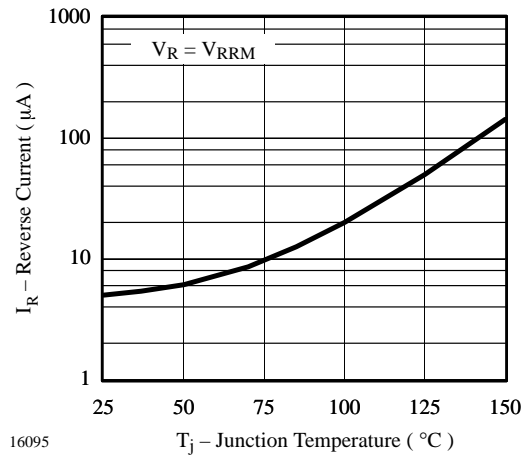


Figure 4. Max. Reverse Current vs. Junction Temperature

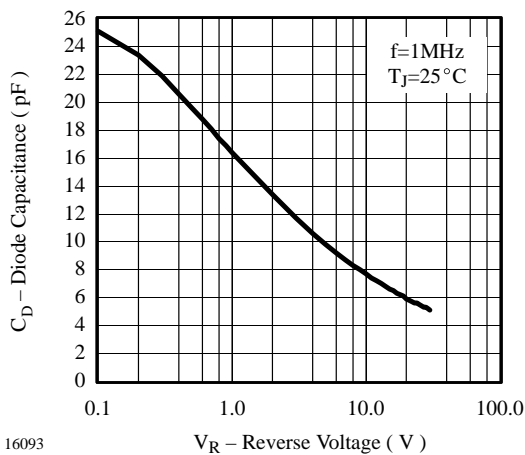


Figure 5. Typ. Diode Capacitance vs. Reverse Voltage

单击下面可查看定价，库存，交付和生命周期等信息

[>>SUNMATE\(森美特\)](#)