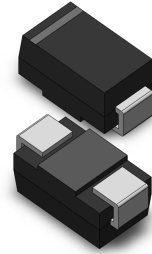


VOLTAGE RANGE: 90V
CURRENT: 1.5 A

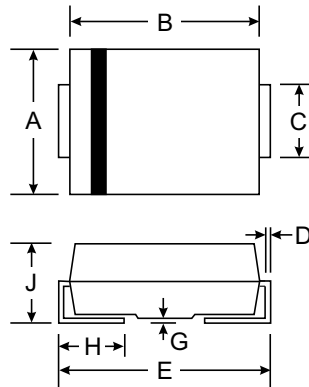


Features

- High efficiency
- Low power losses
- Very low switching losses
- Low reverse current
- High surge capability

Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- 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 _R RRM	90	V
Peak forward surge current	t _p =10ms, half sinewave		I _{FSM}	30	A
Average forward current			I _{FAV}	1.5	A
Junction and storage temperature range			T _j =T _{stg}	-55...+150	°C

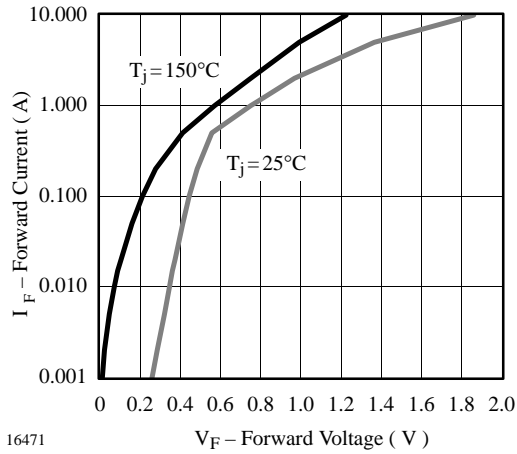
Maximum Thermal Resistance T_j = 25°C

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

Electrical Characteristics T_j = 25°C

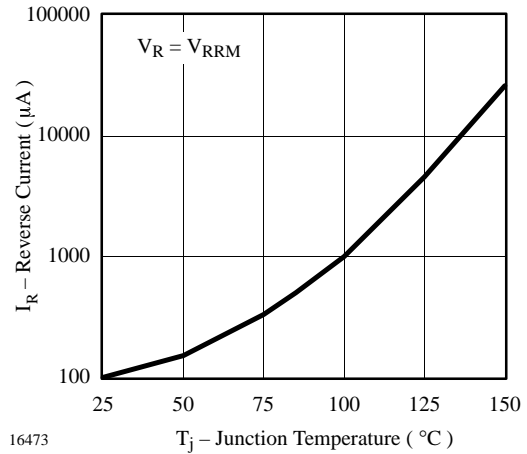
Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F =1A		V _F			750	mV
	I _F =15mA					360	
Reverse current	V _R =V _R RRM		I _R			100	μA
	V _R =V _R RRM, T _j =100°C					1	mA

Characteristics ($T_j = 25^\circ\text{C}$ unless otherwise specified)



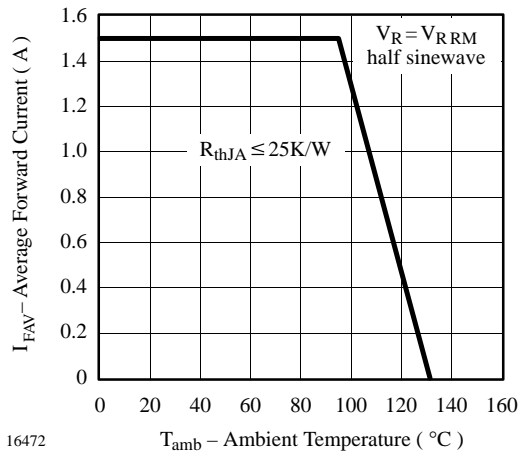
16471

Figure 1. Forward Current vs. Forward Voltage



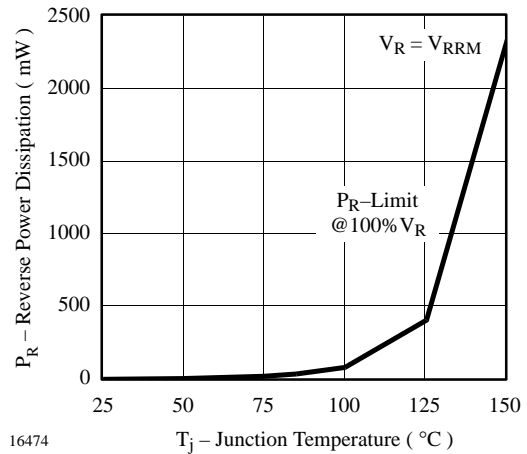
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Figure 4. Reverse Current vs. Junction Temperature



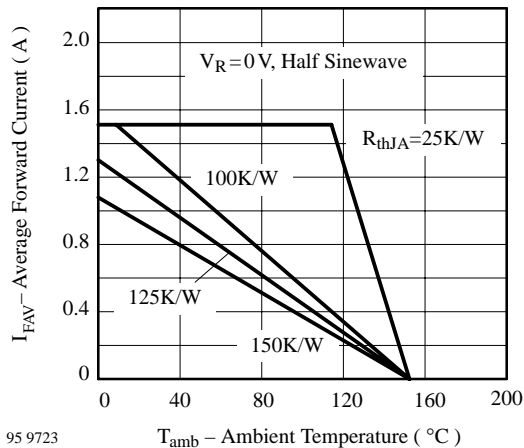
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Figure 2. Max. Average Forward Current vs. Ambient Temperature



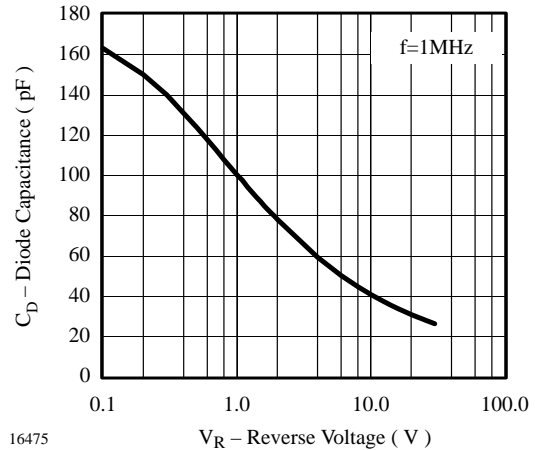
16474

Figure 5. Max. Reverse Power Dissipation vs. Junction Temperature



95 9723

Figure 3. Max. Average Forward Current vs. Ambient Temperature



16475

Figure 6. Diode Capacitance vs. Reverse Voltage