



## DESCRIPTION

The 1SR154-400/1SR154-600 are available in SMA package

## FEATURES

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Available in SMA package

## ORDERING INFORMATION

Package Type	Part Number
SMA	1SR154-400
	1SR154-600
Note	SPQ: 1,500pcs/Reel
AiT provides all RoHS Compliant Products	

## MECHANICAL DATA

Case : SMA Molded plastic

Epoxy : UL94V-O rate flame retardant

Lead : Lead Formed for Surface Mount

Polarity : Color band denotes cathode end

Mounting position : Any

Weight : 0.067 gram



## ABSOLUTE MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbol	1SR154-400	1SR154-600	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	400	600	V
Maximum DC Blocking Voltage	$V_{DC}$	400	600	V
Maximum Absolute Peak Reverse Voltage	$V_{RMS}$	500	750	V
Maximum Average Forward Current	$I_F$	1.0		A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	30		A
Maximum Forward Voltage at $I_F=1.0Amp.$	$V_F$	1.1		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	10		uA
Junction Temperature	$T_J$	150		°C
Storage Temperature Range	$T_{STG}$	-55 ~150		°C



### TYPICAL CHARACTERISTICS

Figure 1. Derating Curve for Output Rectified Current

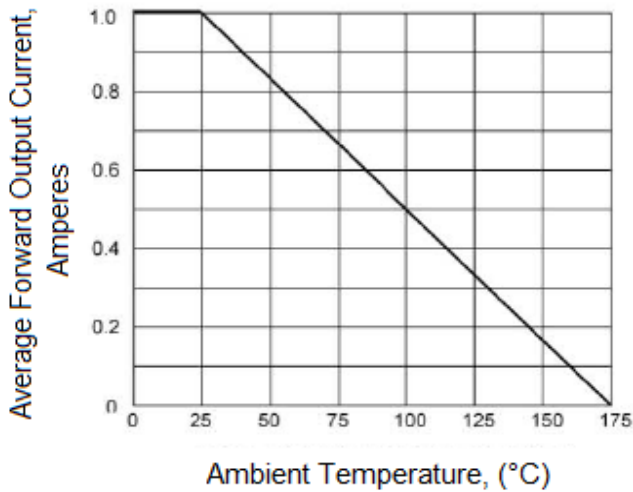


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

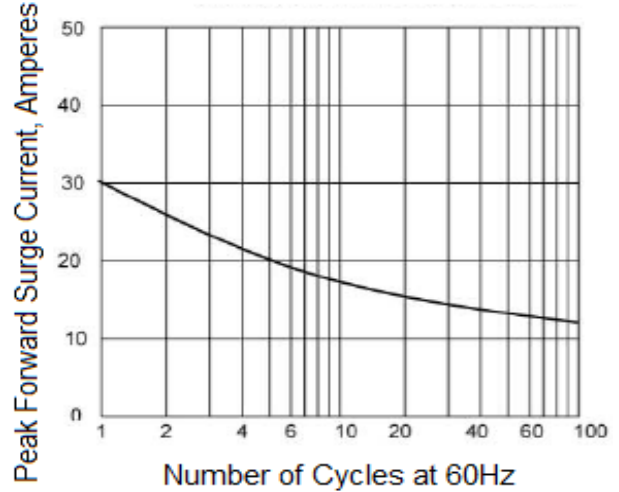


Figure 3. Typical Forward Characteristics

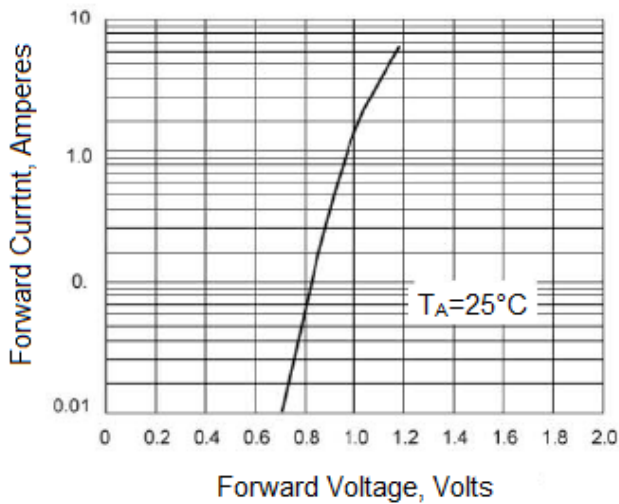
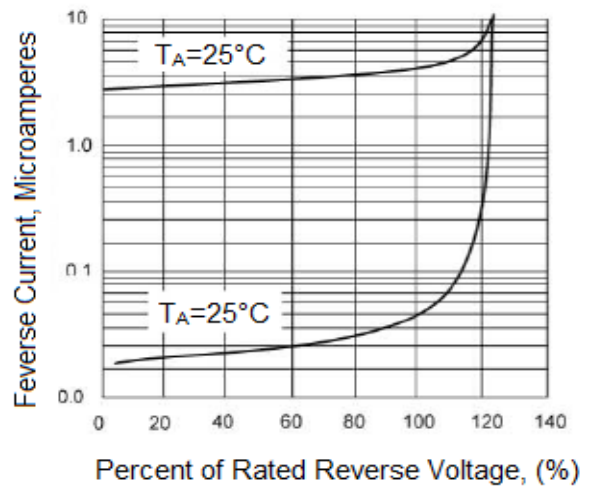


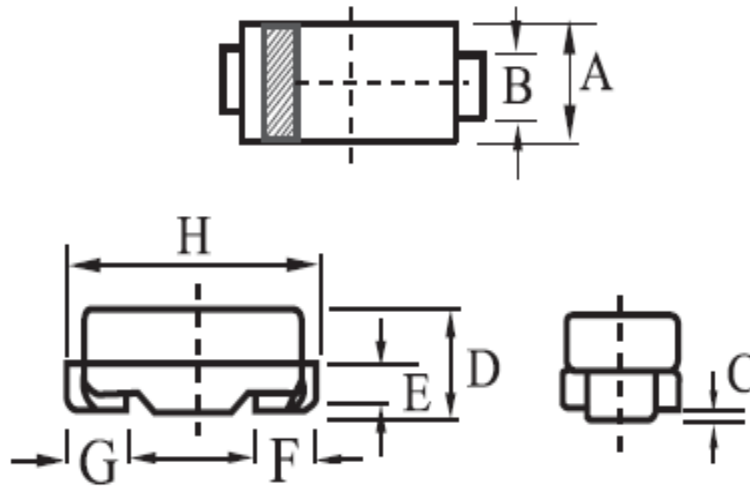
Figure 4. Typical Reverse Characteristics





## PACKAGE INFORMATION

Dimension in SMA (DO-214AC) Package (Unit: mm)



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	2.20	2.80	0.086	0.110
B	1.30	1.70	0.051	0.067
C	-	0.20	-	0.008
D	1.70	2.55	0.067	0.100
E	0.20	1.30	0.008	0.051
F	0.90	1.50	0.035	0.059
G	0.90	1.50	0.035	0.059
H	4.70	5.30	0.185	0.209



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