1SR154-400 / 1SR154-600

SURFACE MOUNT RECTIFIERS

PRV: 400 - 600 Volts / IO: 1.0 Ampere

Features

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- RoHS compliant package

Applications

For use in high frequency rectifier of switching mode power supplies, freewheeling diodes, dc-to-dc converters or polarity protection application.

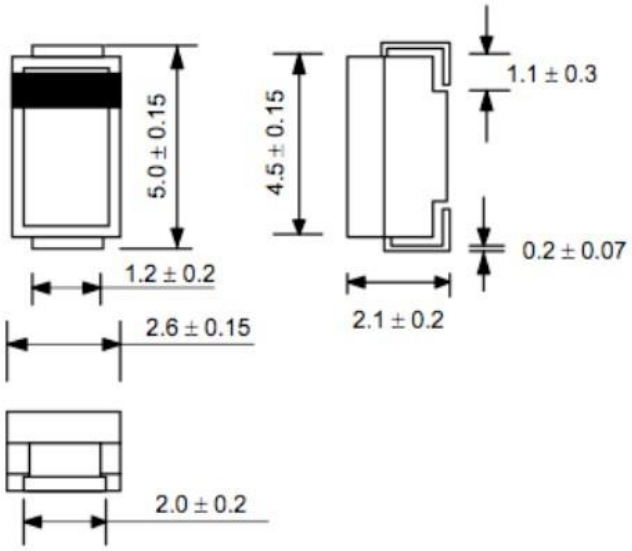
Mechanical Data

- 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: 0.063 gram

Packing & Order Information

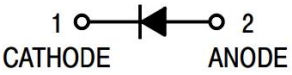
5,000/Reel

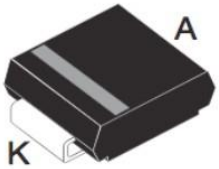
SMA (DO-214AC)



Dimensions in millimeters

Graphic symbol





RoHS
COMPLIANT

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	ISR154-400	ISR154-600	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	400	600	V
Maximum DC Blocking Voltage	VDC	400	600	V
Maximum Absolute Peak Reverse Voltage	VRSM	500	750	V
Maximum Average Forward Current	IF	1		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30		A

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Maximum Ratings (Tc=25°C unless otherwise noted)				
Parameter	**Symbol**	**ISR154-400**	**ISR154-600**	**Unit**
Maximum Forward Voltage at IF = 1.0 Amp	VF	1.1		V
Maximum DC Reverse Current at rated DC Blocking Voltage	IR	10		uA
Junction Temperature	TJ	150		°C
Storage Temperature Range	TSTG	-55 to +175		°C

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■RATINGS AND CHARACTERISTIC CURVES

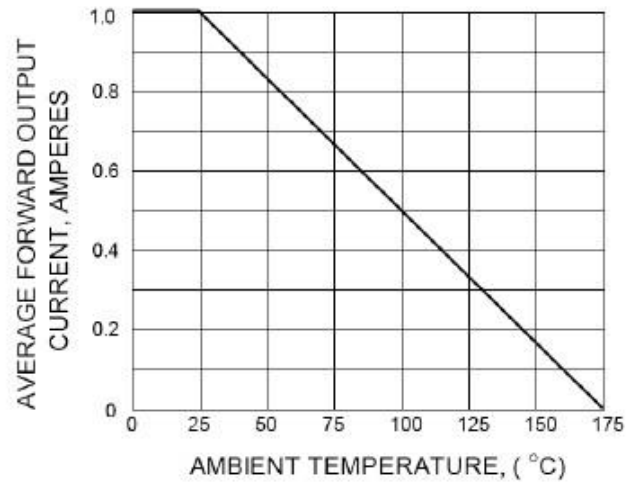

FIG.1- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

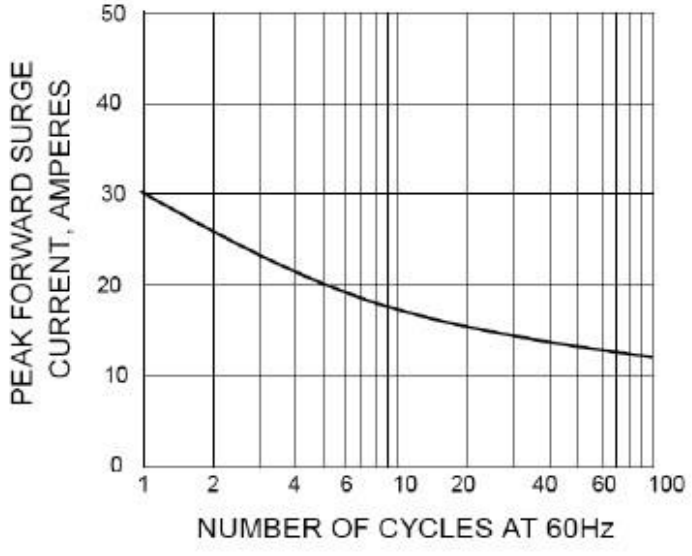

FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

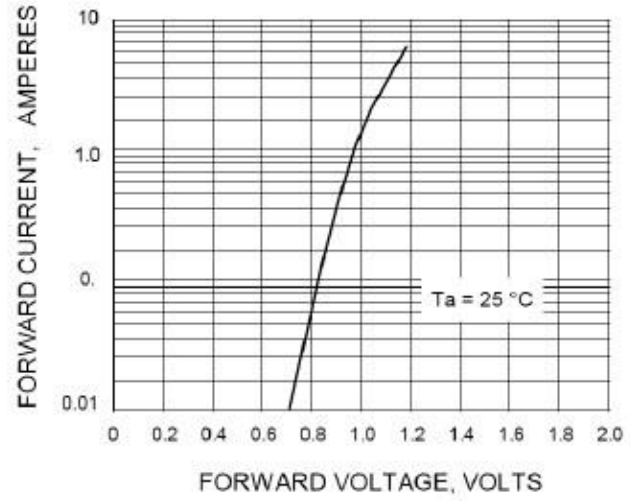

FIG.3-TYPICAL FORWARD CHARACTERISTICS

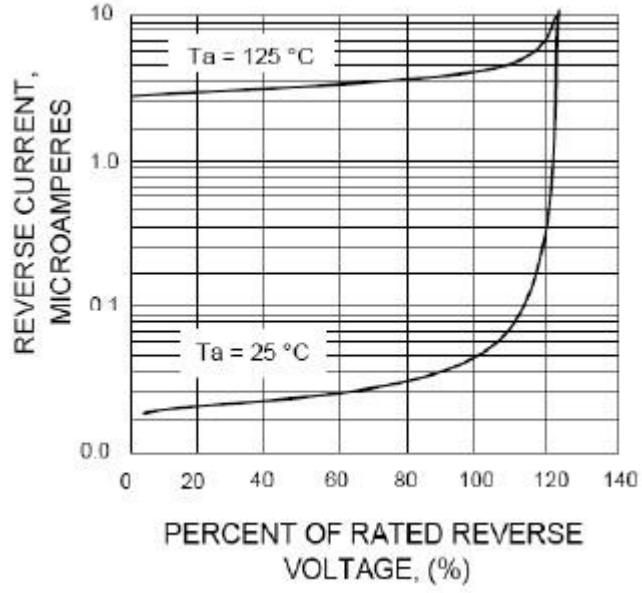

FIG.4-TYPICAL REVERSE CHARACTERISTICS

1SR154-400 / 1SR154-600

SURFACE MOUNT RECTIFIERS

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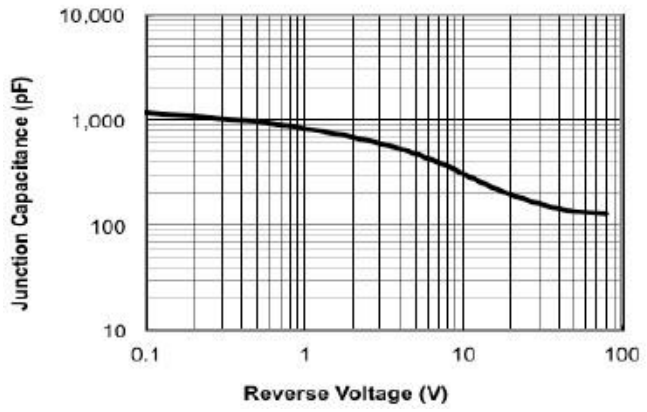

FIG.5- TYPICAL JUNCTION CAPACITANCE

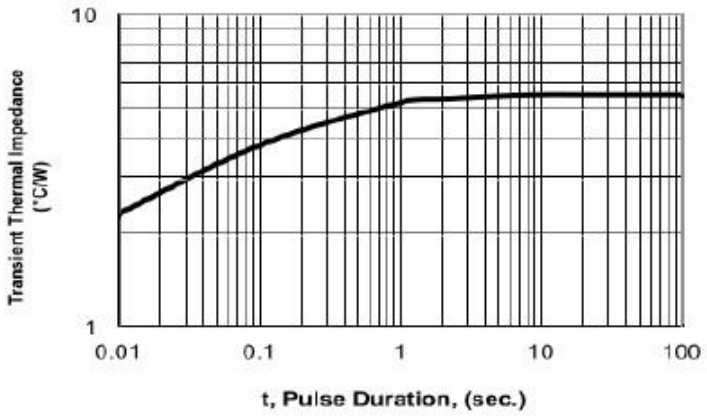

FIG.6- TYPICAL TARNSIENT THERMAL IMPEDANCE

1SR154-400 / 1SR154-600

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