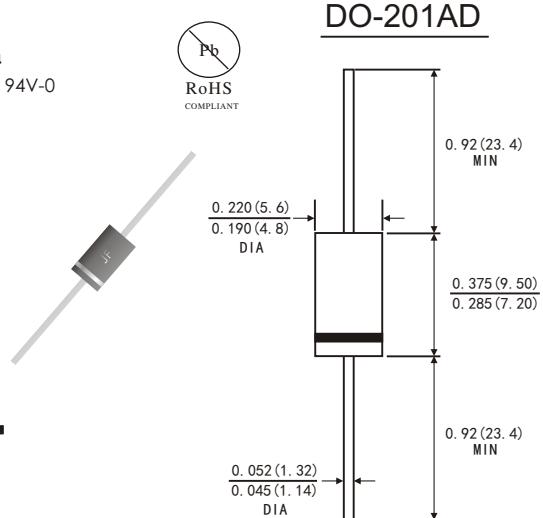


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,low forward voltage drop
- High surge capability
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU and WEEE 2012/19/EU

MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any
- Weight: 0.041ounce, 1.15 grams



Dimensions in inches and (millimetres)

TYPICAL APPLICATIONS

For use in low voltage ,high frequency inverters ,DC/DC converters, free wheeling ,and polarity protection applications

PRIMARY CHARACTERISTICS	
I _{F(AV)}	10.0A
V _{RMM}	60V
I _{FSM}	150A
V _F at I _F =10.0A	0.50V
T _{JMAX}	150°C

MAXIMUM RATINGS

(Ratings at 25°C ambient temperature unless otherwise specified)

Parameter	Symbol	SR1060L	Unit
Maximum repetitive peak reverse voltage	V _{RMM}	60	V
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	I _{F(AV)}	10.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated TL)	I _{FSM}	150	A
Operating junction temperature range	T _J	-55 to +150	°C
Storage temperature range	T _{stg}	-55 to +150	°C

RATINGS AND CHARACTERISTIC OF SR1060L

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ Unless otherwise noted)

Parameter	Test Conditions		Symbol	TYP.	MAX.	Unit
Instantaneous forward voltage	IF=10.0A	$T_A=25^\circ\text{C}$	V_F ¹⁾	0.50	0.55	V
		$T_A=100^\circ\text{C}$		0.50	—	
		$T_A=125^\circ\text{C}$		0.50	—	
	IF=5.0A	$T_A=25^\circ\text{C}$		0.41	0.46	
		$T_A=100^\circ\text{C}$		0.38	—	
		$T_A=125^\circ\text{C}$		0.37	—	
Reverse current	VR=60V	$T_A=25^\circ\text{C}$	I_R ²⁾	60	150	$\mu\text{ A}$
		$T_A=100^\circ\text{C}$		5	10	mA
		$T_A=125^\circ\text{C}$		20	50	
Typical junction capacitance	4V, 1MHz		CJ	570		pF

Notes: 1.Pulse test: 300 $\mu\text{ s}$ pulse width, 1% duty cycle

2.Pulse test: pulse width $\leqslant 40\text{ms}$

THERMAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ Unless otherwise noted)

Parameter	Symbol	SR1060L	Unit
Typical thermal resistance ³⁾	$R_{\theta JA}$	25.0	$^\circ\text{C}/\text{W}$
	$R_{\theta JL}$	8.0	

3.Thermal resistance from junction to lead vertical P.C.B. mounted , 0.375"(9.5mm)lead length

AVAILABALE PACK INFORMATION

Product code	Pack	Box Size L*W*H(mm)	Quantity(pcs/box)	Carton SizeL*W*H(mm)	Quantity(box/carton)
SR1060L-DO-201AD	B/P	190*80*21	200	433*203*230	50
SR1060L-DO-201AD	T/B	264*74*135	1000	400*267*286	10

RATINGS AND CHARACTERISTIC OF SR1060L

FIG.1-FORWARD CURRENT DERATING CURVE

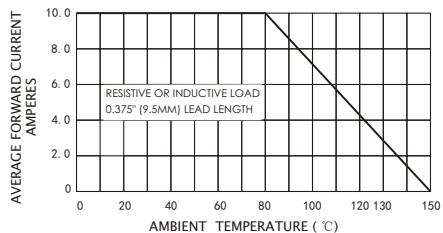


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

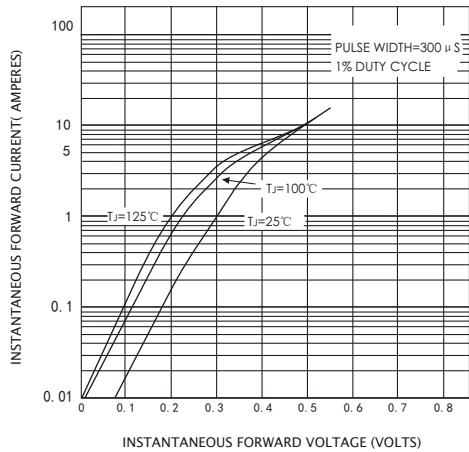


FIG.5-TYPICAL JUNCTION CAPACITANCE

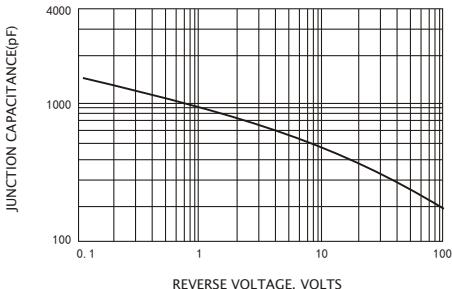


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

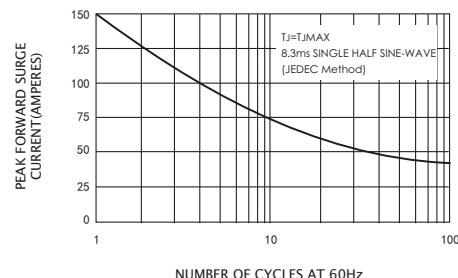


FIG.4-TYPICAL REVERSE CHARACTERISTICS

