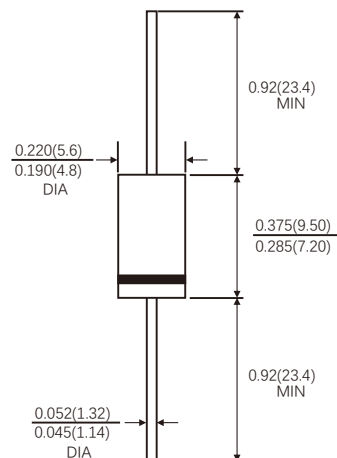


Features

- 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 2015/863/EU



DO-201AD



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

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_{RRM}	60V
I_{FSM}	150A
V_F at $I_F=10.0A, 25^\circ C$	0.50V
T_{JMAX}	150°C

Maximum Ratings

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

Parameter	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	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 CHARACTERISTICS OF SR1060L

Electrical Characteristics (TA=25°C Unless otherwise noted)

Parameter	Test Conditions		Symbol	Typ.	Max .	Unit
Instaneous forward voltage	If=10.0A	TA=25°C	VF 1)	0.50	0.55	V
		TA=100°C		0.48	-	
		TA=125°C		0.47	-	
	If=5.0A	TA=25°C		0.41	0.46	
		TA=100°C		0.38	-	
		TA=125°C		0.37	-	
Reverse current	VR=60V	TA=25°C	IR 2)	-	150	μA
		TA=100°C		-	10	mA
		TA=125°C		-	50	
Typical junction capacitance	4V,1MHz		Cj	870		pF

Notes: 1.Pulse test: 300μs pulse width,1% duty cycle

2.Pulse test: pulse width ≤40ms

Thermal Characteristics

Parameter	Symbol	DO-201AD	Unit
Typical thermal resistance 3)	RθJA	25.0	°C/W
	RθJL	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 CHARACTERISTICS OF SR1060L

Fig.1-Forward Current Derating Curve

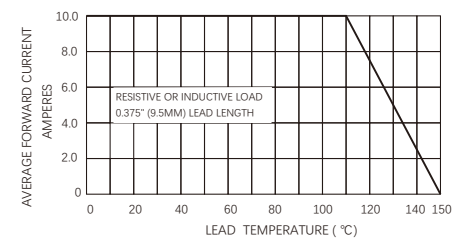


Fig.2-Maximum Non-repetitive Peak Forward Surge Current

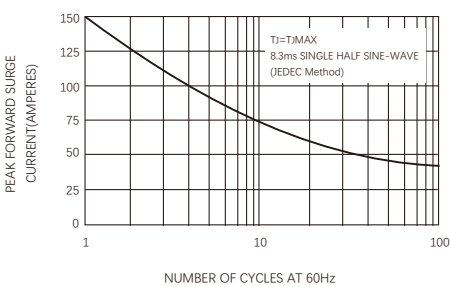


Fig.3-typical Instantaneous Forward Characteristics

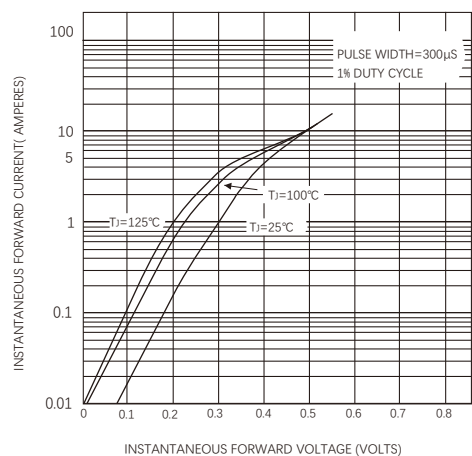


Fig.4-Typical Reverse Characteristics

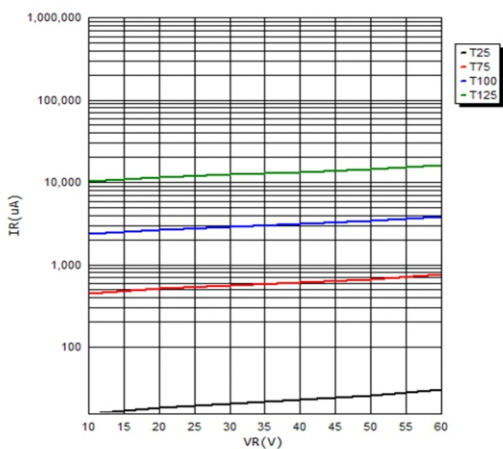
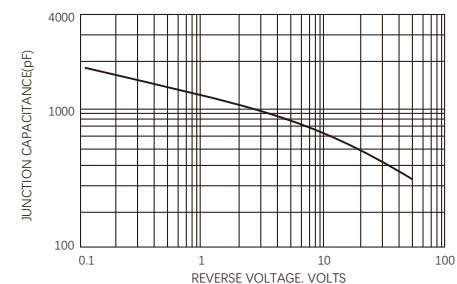


Fig.5-Typical Junction Capacitance



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