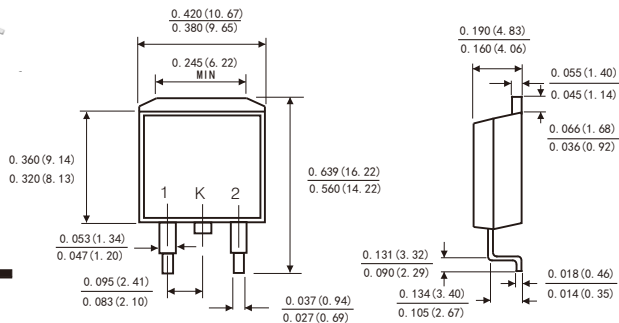


FEATURES

- 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
- For use in low voltage ,high frequency inverters,
- free wheeling ,and polarity protection applications
- Dual rectifier construction
- High temperature soldering guaranteed:260 °C/10 seconds,,
- 0.25" [6.35mm] from case
- Component in accordance to RoHS 2011/65/EU



TO-263 D2PAK



MECHANICAL DATA

- Case: JEDEC TO-263 molded plastic body
- Terminals: Solderable per MIL-STD-202,method 208
- Polarity: As marked
- Mounting Position: Any
- Weight: 0.08ounce, 2.24 gram

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

Parameters		Symbols	SR 1020D1	SR 1030D1	SR 1040D1	SR 1045D1	SR 1060D1	SR 10100D1	SR 10150D1	SR 10200D1	Units
Maximum repetitive peak reverse voltage		VRRM	20	30	40	45	60	100	150	200	Volts
Maximum RMS voltage		VRMS	14	21	28	32	42	70	105	140	Volts
Maximum DC blocking voltage		VDC	20	30	40	40	60	100	150	200	Volts
Maximum average forward rectified current(see Fig.1)	Per leg	I(AV)	5.0								Amps
	Total device		10.0								
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	150.0								Amps
Maximum instantaneous forward voltage at 5.0 A per leg(Notes 1)		VF	0.60				0.75	0.85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Notes 1)	TA=25°C	IR	100				30				μ A
	TA=100°C		5				-				mA
	TA=125°C		-				3				
Typical thermal resistance (Notes 2)		RθJC	2.5								°C/W
Operating junction temperature range		TJ	-55 to+150								°C
Storage temperature range		TSTG	-55 to+150								°C

Notes: 1.Pulse test: 300 μ s pulse width,1% duty cycle
2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SR1020D1 THRU SR10200D1

FIG.1-FORWARD CURRENT DERATING CURVE

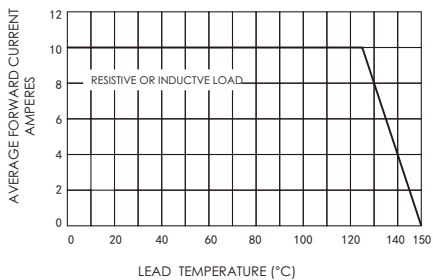


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

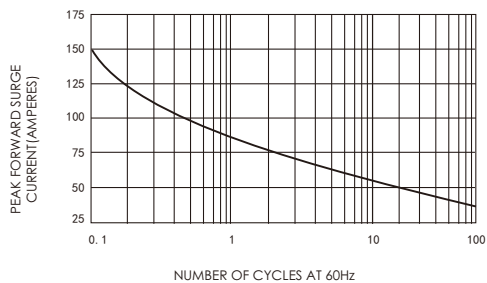


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

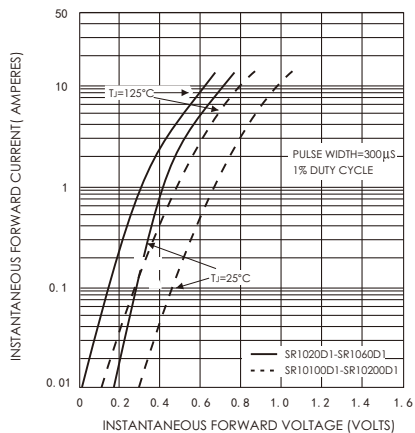


FIG.4-TYPICAL REVERSE CHARACTERISTICS

