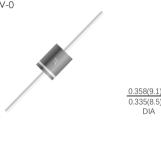
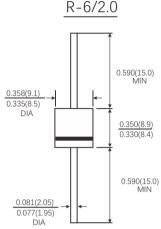


SCHOTTKY BARRIER RECTIFIER Reverse Voltage - 45 Volts Forward Current - 35Amperes

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
- 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 2015/863/EU





Dimensions in inches and (millimeters)

Mechanical Data

- · Case: R-6/2.0 molded plastic body
- · Terminals: Plated axial lead, solderable per MIL-STD-750, method 2026
- · Polarity: Color band denotes cathode end
- · Mounting Position: Any
- · Weight: 0.07ounce, 2.1 grams

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%.)

Parammeter	Symbols	30\$Q045	Units
Maximum repetitive peak reverse voltage	Vrrm	45	Volts
Maximum RMS voltage	Vrms	32	Volts
Maximum DC blocking voltage	VDC	45	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	I(A∨)	35.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated TL)	IFSM	450	Amps
Maximum instantaneous forward voltage at 35.0 A(Note 1)	VF	0. 55	Volts
Maximum instantaneous reverse T _A =25°C	lr ·	0.1	mA
current at rated DC blocking voltage(Note 1) $T_A = 100^{\circ}$		20	
Typical thermal resistance (Note 2)	RøJC	1.0	°C/W
	ReJA	45	
Operating junction temperature range at reduced reverse voltage VR<=80%VRRM	TJ	-55 to+150	°C
in DC forward model		-55 to+200	
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, Thermal resistance from junction to lead,

Thermal resistance from junction to ambient



RATINGS AND CHARACTERISTIC CURVES 35SQ045

FIG.1-FORWARD CURRENT DERATING CURVE

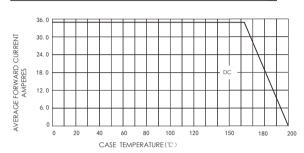


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

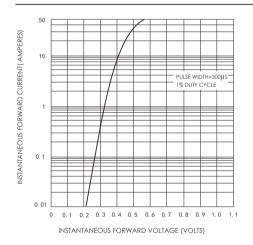


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

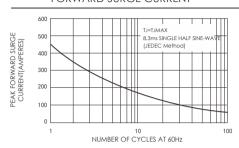
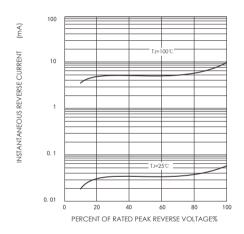


FIG.4-TYPICAL REVERSE CHARACTERISTICS





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