

SD1045

PRV: 45 Volts Io: 10 Amperes

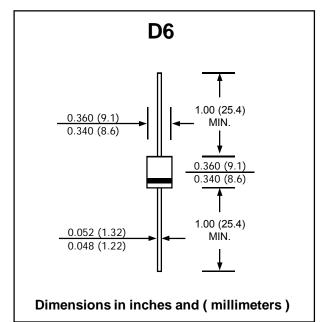
FEATURES:

- * High current capability
- * High surge current capability
- * High reliability
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA:

- * Case : DO-201AD Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight: 1.1 grams

SCHOTTKY BARRIER RECTIFIER DIODE



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	45	V
Maximum RMS Voltage	V _{RMS}	32	V
Maximum DC Blocking Voltage	V _{DC}	45	V
Maximum Average Forward Current at T _L =100°C (Note 1)	I _{F(AV)}	10	Α
Non-Repetitive Peak Forward Surge Current,			
10ms single half sine wave	I _{FSM}	340	A
superimposed on rated load (JEDEC Method)			
Maximum Forward Voltage at I _F = 10 A	V _F	0.55	V
Maximum Reverse Current at Ta = 25 °C	I _R	0.8	mA
Rated DC Blocking Voltage Ta = 125 °C	I _{R(H)}	70	mA
Typical Junction Capacitance (Note 2)	CJ	900	pF
Typical Thermal Resistance (Note 1)	R _{ejl}	8.0	°C/W
Operating Temperature Range	TJ	- 65 to + 150	°C
Storage Temperature Range	T _{STG}	- 65 to + 150	°C

Note: (1) Valid provided that leads are kept at ambient temperature at a distance of 9.5 mm from the case.

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC



