

SENSITRON
SEMICONDUCTOR

TECHNICAL DATA
DATASHEET 5581, REV –

ULTRAFast RECOVERY RECTIFIER

Add suffix “S” to part number for S-100 screening, per MIL-PRF-19500, JANTXV level (i.e. SHD326363S)

DESCRIPTION: A 600 VOLT, 15 AMP, 50 NANOSECOND HERMETIC ULTRAFast RECOVERY RECTIFIER IN A HERMETIC TO-257 PACKAGE.

MAX. RATINGS AND ELECTRICAL CHARACTERISTICS

(T_C = 25°C)

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	-	600	-	-	Vdc
Average DC Output Current (I _O) ⁽¹⁾ (per leg)	T _C = 100 °C	-	-	15	A
Peak Single Cycle Surge Current (I _{FSM}) ⁽¹⁾	t _p = 8.3 ms Single Half Cycle Sine Wave Superimposed On Rated Load, T _C = 25 °C	-	-	120	A(pk)
Operating and Storage Temp. (Top & Tstg)	-	-65	-	+150	°C
Maximum Forward Voltage (V _f) Per Leg	I _F = 10 A (300 μsec pulse, duty cycle < 2%)	-	-	1.45	V
Maximum Instantaneous Reverse Current At Rated (PIV) Per Leg	T _C = 25°C T _C = 100°C	-	-	0.05 5	mA
Reverse Recovery Time (t _{rr}) Per Leg	I _F = 0.5A, I _R = 1.0 A, I _{RR} = 0.25A	-	-	50	ns
Thermal Resistance (θ _{JC})	Per Leg Per Package	-	-	1.8 0.9	°C/W
Maximum Junction Capacitance (C _j) Per Leg	V _R = 10V, f = 1Mhz	-	-	150	pF

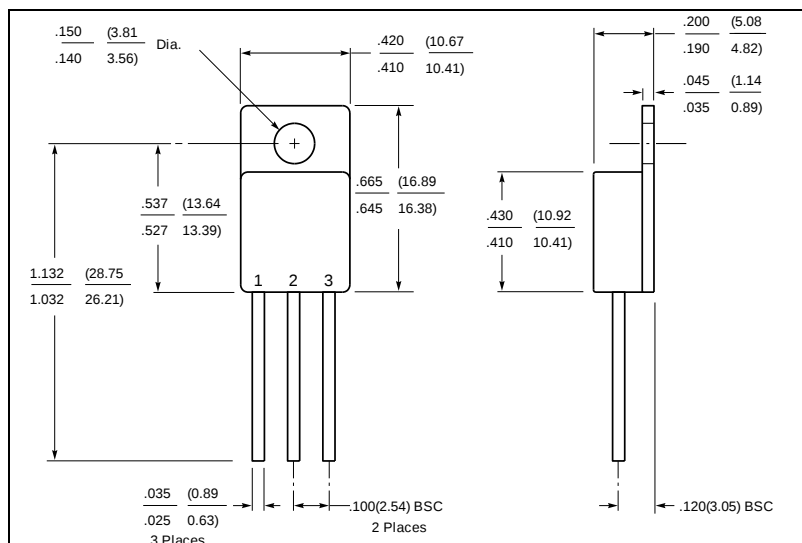
⁽¹⁾ Limited by the package.

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MECHANICAL DIMENSIONS In inches / mm



TO-257

PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DOUBLER (D)	ANODE	CATHODE / ANODE	CATHODE

PART ORDERING INFORMATION:

SHD326363 XX X

Part Number

Screening Level (blank is no screening):

Suffix	Screened in Accordance with:
blank	No screening level
SX	MIL-PRF-19500, TX Level
SV	MIL-PRF-19500, TXV Level
SS	MIL-PRF-19500, S Level

QCI (blank is no QCI):

Suffix	Inspection in Accordance with:
blank	No QCI
Q	MIL-PRF-19500 QCI

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