SAFETY AND INSULATION RATINGS

(As per DIN EN/IEC 60747−5−5, this optocoupler is suitable for “safe electrical insulation” only within the safety limit data. Compliance with the safety ratings shall be ensured by means of protective circuits.)

Parameter		Characteristics
Installation Classifications per DIN VDE 0110/1.89 Table 1	< 150 Vrms	I–IV
	< 300 Vrms	I–IV
Climatic Classification		55/100/21
Pollution Degree (DIN VDE 0110/1.89)		2
Comparative Tracking Index		175

Symbol	Parameter	Value	Unit
V_{PR}	Input to Output Test Voltage, Method A, V_{IORM} x 1.6 = V_{PR}, Type and Sample Test with t_m = 10 s, Partial Discharge < 5 pC	1360	V_{peak}
	Input to Output Test Voltage, Method B, V_{IORM} x 1.875 = V_{PR}, 100% Production Test with t_m = 1 s, Partial Discharge < 5 pC	1594	V_{peak}
V_{IORM}	Maximum Working Insulation Voltage	850	V_{peak}
V_{IOTM}	Highest Allowable Over Voltage	6,000	V_{peak}
	External Creepage	7	mm
	External Clearance	7	mm
	External Clearance (for Option TV, 0.4′ Lead Spacing)	10	mm
DTI	Distance Through Insulation (Insulation Thickness)	0.5	mm
T_S	Case Temperature (Note 1)	175	°C
$I_{S,INPUT}$	Input Current (Note 1)	350	mA
$P_{S,OUTPUT}$	Output Power (Note 1)	800	mW
R_{IO}	Insulation Resistance at Ts, V_{IO} = 500 V (Note 1)	$>10^9$	Ω

1. Safety limit values – maximum values allowed in the event of a failure.

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise specified)

Symbol	Parameter	Value	Unit
TOTAL DEVICE			
T_{STG}	Storage Temperature	−40 to +125	°C
T_{OPR}	Operating Temperature	−40 to +100	°C
T_{SOL}	Lead Solder Temperature	260 for 10 seconds	°C
EMITTER			
I_F	Continuous Forward Current	60	mA
V_R	RE”er7 r52.189 2able Ov8 79.2 236.6363 Tm(V)Tj659.754 232.2jET.14 .343 ref507.495401 292.423TouS.7496 250.9796 Tm0 Tcg59.717.sfB		

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

INDIVIDUAL COMPONENT CHARACTERISTICS

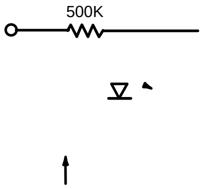
Symbol	Parameter	Test Conditions	Min	Typ*	Max	Unit
EMITTER						
V_F	Input Forward Voltage	I_F = 16 mA	−	1.3	1.75	V
I_R	Reverse Leakage Current	V_R = 5 V	−	−	10	μA
C_J	Capacitance	V = 0 V, f = 1.0 MHz	−	50	−	pF

OUTPUT DETECTOR

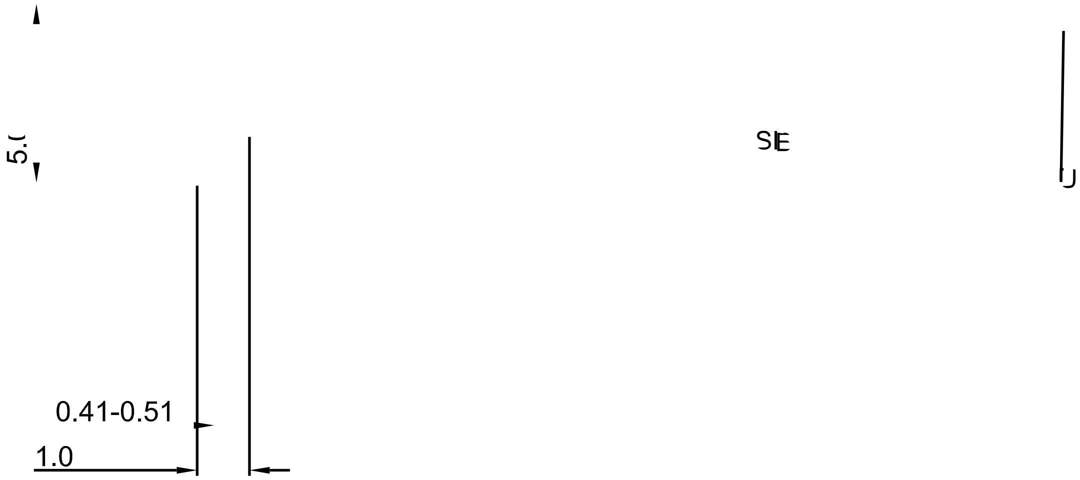
BV_{4-6}	Breakdown Voltage Either Polarity	H11F1M, H11F2M	I_{4-6} = 10 μ

TYPICAL APPLICATIONS

As a Variable Resistor

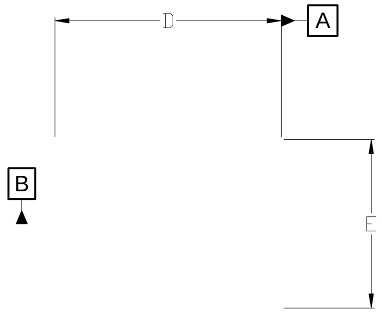


LOW FREQUENCY
Dynamic Range   70 db
For $0 \leq I_F \leq 30$ mA


5.
0.41-0.51
1.0
SE

PDIP6 8.51x6.35, 2.54P
CASE 646BY
ISSUE A

DATE 15 JUL 2019



TOP VIEW

ALL DIMENSIONS ARE IN MILLIMETERS.

C) DIM[redacted]