



- ON = Company Logo H11D1 = Specific Device Code V = DIN EN/IEC60747-5-5 Option (only appears on component ordered with this option) = One-Digit Year Code
- Х
- ΥY
- = Digit Work Week = Assembly Package Code Q

SCHEMATICS

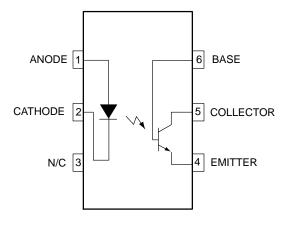


Figure 1. Schematics

SAFETY AND INSULATION RATINGS

Parameter		Characteristic		
Installation Classifications per DIN VDE	< 150 V _{RMS}	I – IV		
0110/1.89 Table 1, For Rated Mains Voltage	< 300 V _{RMS}	I – IV		
Climatic Classification		55/100/21		
Pollution Degree (DIN VDE 0110/1.89)		2		
Comparative Tracking Index		175		

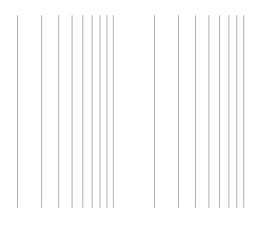
Symbol	Parameter	Value	Unit
V _{PR}	Input-to-Output Test Voltage, Method A, V _{IORM} x 1.6 = V _{PR} , Type and Sample Test with t_m = 10 s, Partial Discharge < 5 pC	1360	V _{peak}
	Input-to-Output Test Voltage, Method B, $V_{IORM} \times 1.875 = V_{PR}$, 100% Production Test with $t_m = 1 \text{ s}$, Partial Discharge < 5 pC	1594	V _{peak}
VIORM	Maximum Working Insulation Voltage	850	V _{peak}
VIOTM	Highest Allowable Over-Voltage	6000	V _{peak}
	External Creepage	≥7	mm
	External Clearance	≥7	mm
	External Clearance (for Option TV, 0.4" Lead Spacing)	≥ 10	mm

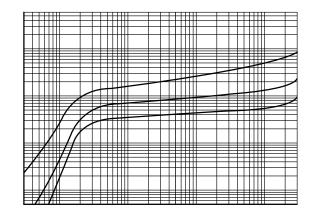
ABSOLUTE MAXIUM RATINGS

Symbol	Parameter	Device	Value	Unit
TOTAL DE\	/ICE			
T _{STG}	Storage Temperature	All	-40 to + 125	°C
T _{OPR}	Operating Temperature	All	-40 to + 100	°C
TJ	Junction Temperature	All	-40 to + 125	°C
T _{SOL}	Lead Solder Temperature	All	260 for 10 seconds	°C
PD	Total Device Power Dissipation @ $T_A = 25^{\circ}C$	All	420	mW
	Derate Above 25°C		3.5	mW/°C
EMITTER				
١ _F	Forward DC Current (Note 2)	All	80	mA
V _R	Reverse Input Voltage (Note 2)	All	6.0	V
l _F (pk)	Forward Current – Peak (1 µs pulse, 300 pps) (Note 2)	All	3.0	А
PD	LED Power Dissipation @ $T_A = 25^{\circ}C$ (Note 2)	All	120	mW
	Derate Above 25°C		1.41	mW/°C
DETECTOR	!			-
PD	Power Dissipation @ TA = 25°C	All	300	mW
	Derate Linearly Above 25°C		4.0	mW/°C
V _{CEO}	Collector to Emitter Voltage (Note 2)	MOC8204M	400	V
		H11D1M	300	V
		H11D3M	200	V
		4N38M	80	V
V _{CBO}	Collector Base Voltage (Note 2)	MOC8204M	400	V
		H11D1M	300	V
		H11D3M	200	V
		4N38M	80	V
V _{ECO}	Emitter to Collector Voltage (Note 2)	H11D1M, H11D3M, MOC8204M	7	V
Ι _C	Collector Current (Continuous)	All	100	mA

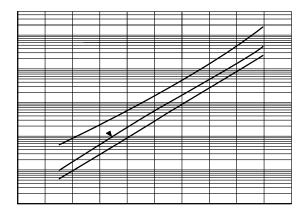
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected. 2. Parameters meet or exceed JEDEC registered data (for 4N38M only).

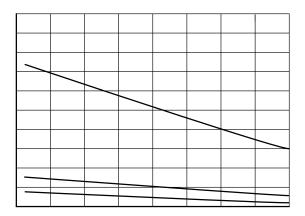
TYPICAL PERFORMANCE CURVES



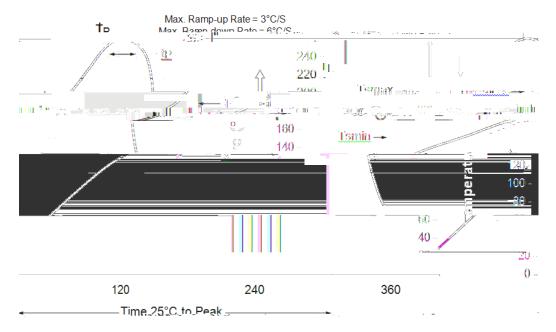


	 			_		-	 		<u> </u>
	 					-			
						_			-
	 					_			<u> </u>
				_		-			<u> </u>
						-			
					-				
				-					
L			-	-		_	 		-
		-	/			_	 		
	_					-			
						1			
				_		_	 		
r						_			L
						_	 		-



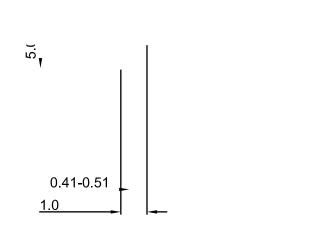


REFLOW PROFILE





Profile Feature	Pb-Free Assembly Profile		
Temperature Min. (Tsmin)	150°C		
Temperature Max. (Tsmax)	200°C		
Time (t _S) from (Tsmin to Tsmax)	60 – 120 seconds		
Ramp-			



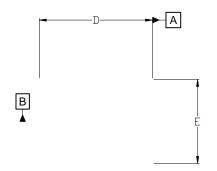
٨

SE

IJ

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

DATE 15 JUL 2019



TOP VIEW



ALL DIMENSIONS ARE IN MILLIMETERS. C) DIM∎

onsemi, , and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "onsemi" or its affiliates and/or subsidiaries in the United States and/or other countries. onsemi owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of onsemi's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. Onsemi reserves the right to make changes at any time to any products or information herein, without notice. The information herein is provided "as-is" and onsemi makes no warranty, representation or guarantee regarding the accuracy of the information, product features, availability, functionality, or suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or incruit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using onsemi