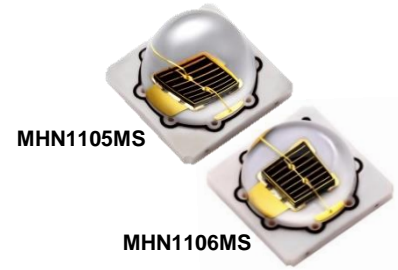




Stanley Electric's Ultra High-Power IR LEDs

Global market leader

in high radiant flux / low thermal resistance



◆ Applications

Automotive		Security	
 DMS (Driver Monitoring System)		 Passenger detection	
Gesture control		Surveillance cameras	

◆ Features

- World-class radiant flux (total luminous flux)
- Low thermal resistance and high reliability technology originally developed for high-power LEDs for headlamps
- Two distribution angles: narrow (60 degrees) / wide (120 degrees)

◆ Specifications



Part name		MHN1105MS	MHN1106MS	Units
Peak wavelength	λ_p	945	945	nm
Half intensity angle	$2\theta_{1/2}$	60	120	deg.
Radiant intensity	I_e	750	420	mW/sr
Total radiant flux	Φ_e	1,630	1,650	mW
Forward voltage	V_F	2.9		V
Max. forward current	I_F	1,000		mA
Pulsed forward current	I_{FRM}	5,000 ※1		mA
Response time	tr/tf	15 / 15		nsec
Operating temperature	Topr	-40 to +125		°C
Storage temperature	Tstg	-40 to +125		°C
Thermal resistance	$R_{th(j-s)}$	5 ※2		°C/W
Size	L×W×H	3.8 × 3.8 × 2.8	3.8 × 3.8 × 2.1	mm

Conditions : Ta=25°C I_F=1,000 mA

※1 Pulsed current conditions : 0.1 ms pulse 1/100 duty

※2 Thermal resistance : Junction-Soldering point