

isc Silicon PNP Darlington Power Transistor

PMD11K60

DESCRIPTION

- High DC current gain
- Collector-Emitter Sustaining Voltage-
 $V_{CEO(SUS)} = -60V(\text{Min})$
- Complement to type PMD10K60

APPLICATIONS

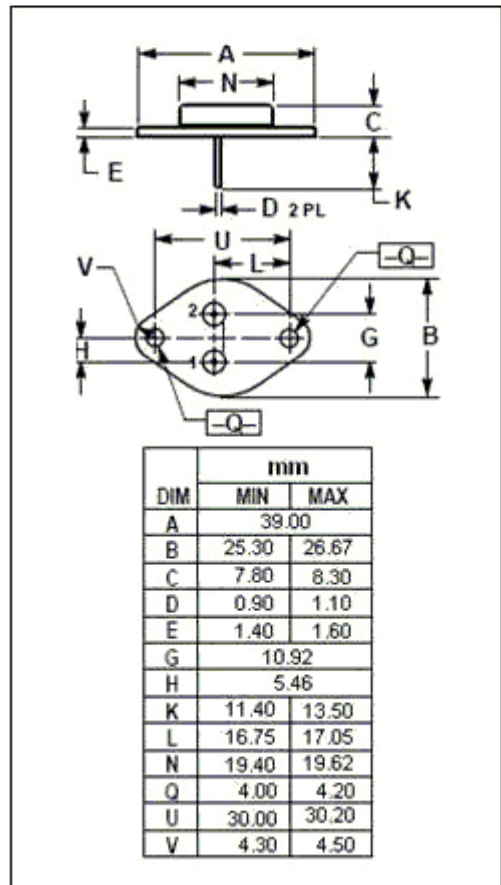
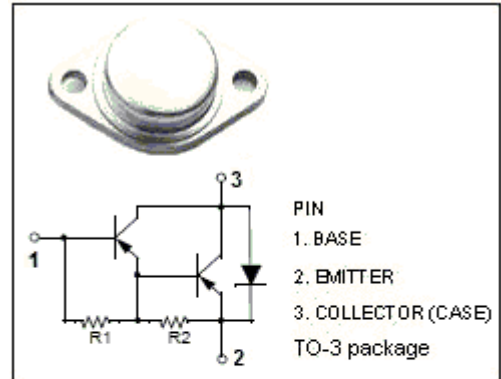
- Designed for general purpose amplifier and low frequency switching applications

ABSOLUTE MAXIMUM RATINGS($T_C=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
I_C	Collector Current -Continuous	-12	A
I_{CP}	Collector Current-Peak	-20	A
I_B	Base Current	-0.2	A
P_C	Collector Power Dissipation@ $T_C=25^\circ\text{C}$	150	W
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-65~200	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	ThermalResistance, Junction to Case	1.17	$^\circ\text{C}/\text{W}$



isc Silicon PNP Darlington Power Transistor**PMD11K60****ELECTRICAL CHARACTERISTICS** $T_C=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CE(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C = -100\text{mA}; I_B = 0$	-60		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -6\text{A}; I_B = -24\text{mA}$		-2.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -6\text{A}; I_B = -24\text{mA}$		-2.8	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -6\text{A}; V_{CE} = -3\text{V}$		-2.8	V
I_{CER}	Collector Cutoff current	$V_{CE} = -60\text{V}; R_{BE} = 1\text{K}\Omega$ $V_{CE} = -60\text{V}; R_{BE} = 1\text{K}\Omega, T_C = 150^\circ\text{C}$		-1.0 -5.0	mA
I_{EBO}	Emitter Cut-off current	$V_{EB} = -5\text{V}; I_C = 0$		-2.0	mA
h_{FE}	DC Current Gain	$I_C = -6\text{A}; V_{CE} = -3\text{V}$	800	20000	
f_T	Current-Gain—Bandwidth Product	$I_C = -5\text{A}; V_{CE} = -3\text{V}, f = 1\text{kHz}$	4		MHz
C_{OB}	Output Capacitance	$I_E = 0; V_{CB} = -10\text{V}; f_{test} = 1.0\text{MHz}$		300	pF